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## President's Message

**PRESIDENT MATTHEW S. HOLLAND**

Welcome to Utah Valley University! I commend your decision to study at a dynamic university that offers a signature engaged learning experience. By coming here prepared for a rigorous academic experience, you are on the path to reaching your educational, professional and personal goals. It is my personal commitment to you that UVU will offer a first-rate environment as you pursue scholarly discovery and personal growth.

It is an exciting time to be here. As you might know, UVU is now one of the largest public institutions in the region with more than 30,000 students. As a new student, that might seem intimidating, but I am confident that your experience here will be characterized by lasting friendships with your fellow students as well as personalized attention and mentoring from caring faculty and staff who are focused on your success.

UVU's emphasis on engaged learning is meant to provide deeper learning experiences, and I hope you will seek out these unique opportunities during your educational journey here. Whether it's mapping ancient tombs in Israel with digital technology, studying the Wasatch fault line on site, or starting a viable business in an entrepreneurial class, UVU has an engaged learning program to match your interests and course of study. Beyond engaged learning, get involved in campus events and activities, including athletics, clubs, lectures and conferences. Doing so will maximize your university experience, making it one of the most rewarding investments of your life.

Sincerely,

President Matthew S. Holland

This issue of the Utah Valley University catalog contains information about the institution as currently approved by the governing boards. The online version of the catalog will always contain the most current version of the catalog and therefore replaces and supersedes any hard copy version. This catalog is not to be considered a contract between Utah Valley University and any student, any other institution, or any other person or entity. Utah Valley University reserves the right to change its role, policies, or course offerings at any time. To the extent any contradictions exist between this catalog and Utah Valley University policies, the policies take precedence and control.

Utah Valley University offers programs at its several campus sites, including the Orem Campus, the Provo Airport Campus, the West Campus, the North Valley Center, and the Wasatch Campus. The UVU semester class schedule designates at which campus site each class section is taught.

## Academic Calendar

**Academic Calendar Fall 2015 – Summer 2016**

(Rev 5/28/15)

<table>
<thead>
<tr>
<th>Faculty Return</th>
<th>Regular Classes Begin</th>
<th>Weekend Classes Begin</th>
<th>General Calendar Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, August 17</td>
<td>Monday, August 24</td>
<td>Fri. &amp; Sat., Aug. 28 &amp; 29</td>
<td>Fall Semester 2015</td>
</tr>
<tr>
<td>Monday, January 4</td>
<td>Monday, January 4</td>
<td>Fri. &amp; Sat., Jan. 8 &amp; 9</td>
<td>Spring Semester 2016</td>
</tr>
</tbody>
</table>
Introduction

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Block Classes End</td>
<td>Tuesday, October 13</td>
</tr>
<tr>
<td>Second Block Classes Begin</td>
<td>Wednesday, October 14</td>
</tr>
<tr>
<td>Second Block Classes End</td>
<td>Friday, February 26</td>
</tr>
<tr>
<td>Regular Classes End</td>
<td>Friday, December 11</td>
</tr>
<tr>
<td>Weekend Classes End</td>
<td>Fri. &amp; Sat., Dec 18 &amp; 19</td>
</tr>
<tr>
<td>Final Exams</td>
<td>Mon.-Thurs., Dec 14-17</td>
</tr>
<tr>
<td>Weekend Final Exams</td>
<td>Fri. &amp; Sat., Dec 18 &amp; 19</td>
</tr>
<tr>
<td>Semester/Term End</td>
<td>Thursday, December 17</td>
</tr>
<tr>
<td>Commencement</td>
<td>N/A</td>
</tr>
<tr>
<td>Convocation</td>
<td>N/A</td>
</tr>
<tr>
<td>Holidays</td>
<td>Fall Semester 2015</td>
</tr>
<tr>
<td>Labor Day</td>
<td>Monday, September 7</td>
</tr>
<tr>
<td>Fall Break</td>
<td>Thurs.-Sat., Oct 15-17</td>
</tr>
<tr>
<td>Thanksgiving*</td>
<td>Mon.-Sat., Nov. 23-28</td>
</tr>
<tr>
<td>Martin Luther King Jr. Day</td>
<td>Monday, January 18</td>
</tr>
<tr>
<td>Reading Day</td>
<td>Tuesday, February 16**</td>
</tr>
<tr>
<td>Washington &amp; Lincoln Day*</td>
<td>Monday, February 15</td>
</tr>
<tr>
<td>Spring Break*</td>
<td>Mon.-Sat., March 14-19</td>
</tr>
<tr>
<td>Memorial Day</td>
<td>N/A</td>
</tr>
<tr>
<td>Independence Day</td>
<td>N/A</td>
</tr>
<tr>
<td>Pioneer Day</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Notes: Other calendar options may be available on a limited basis for certain specialized courses.

*NO ACCESS to UVU computing resources as follows: Fall Break – 5 pm Friday through Sunday; Thanksgiving Holiday—5 pm Wednesday through Sunday; Washington & Lincoln Day Holiday—5pm Friday through Monday; and Spring Break—5 pm Thursday through Sunday. For questions about access contact Ray Walker at Ray.Walker@uvu.edu.

**Not applicable for Weekend College Sections

Approved by Academic Calendar Committee 11/27/2012, Revised January 14, 2013, Revised April 20, 2015
Approved by Academic Affairs Council 12/11/12, Revised 2/26/13, Revised April 21, 2015
Approved by President’s Council 2/28/13, Revised May 28,2105
Approved by the Board of Trustees 3/28/13, Revised pending

Academic Policies & Standards

ACADEMIC POLICIES & STANDARDS

Academic Year

The academic year consists of three semesters: fall, spring, and summer. Fall and spring semesters are each made up of 15 weeks of class work and one week for final exams. The summer semester is 14 weeks in length; the time in classes is adjusted to equal the class time of fall and spring semesters. There is no final exam period during summer, and most classes are offered in one of two seven-week blocks.

Course Administration

UVU reserves the right to cancel any course at any time. Reasons for course cancellations include, but are not limited to, low enrollment in the course, space unavailability, instructor change, loss of instructor, and/or program changes. Students enrolled in the course will be contacted as soon as possible by the appropriate school or college when the university decides to cancel a course.

Class Periods/Credits

All credit hours are computed in semester hours. Three hours of work per week are, on average, expected to earn one semester credit hour; however, one credit hour may include any of the following combinations of work:

1. One hour of lecture, plus a minimum of two hours of personal work outside of class, regardless of delivery mode (One hour of lecture is considered to be 50 minutes per week);
2. Three hours in a laboratory, internships, practica, studio work, or other academic work, regardless of delivery mode, with additional outside work in preparation and documentation;
3. Any other combination appropriate to a particular course as determined by the academic department.
Introduction

All transfer courses taken on a quarter system will be converted to semester hours using a three to two ratio. For example, a three credit hour course from a quarter calendar institution transfers to UVU as two semester credits. A three semester credit course at UVU transfers to a college or university operating on the quarter calendar as 4.5 quarter credits.

Full-time Student Status

UVU considers students registered for 12 credits or more per semester or summer to be full-time students. A 12 credit hour minimum load is generally accepted by sponsoring agencies for certifying full-time status. Financial aid recipients receiving full benefits and students on scholarships are required to carry a minimum of 12 credits per semester.

For students attending only the fall and spring semesters, 15 to 18 credits per semester is generally required to complete associate degree programs within two academic years, assuming all prerequisites are satisfied (See individual major requirements for exceptions).

Credit Hour Loads in Excess of 20

Students who enroll in 21 or more credit hours must have approval from the deans of the appropriate schools and/or colleges.

Year Classifications & Credit Hours

Freshman: 0-29 credit hours
Sophomore: 30-59 credit hours
Junior: 60-89 credit hours
Senior: 90 or more credit hours

Grading Policies

Grades are determined by instructors, based upon measures determined by the instructor and department and may include: evaluation of responses, written exercises and examinations, performance exercises and examinations, classroom/laboratory contributions, mastery of pertinent skills, etc. The letter grade “A” is an exceptional grade indicating superior achievement; “B” is a grade indicating commendable mastery; “C” indicates satisfactory mastery and is considered an average grade; “D” indicates substandard progress and insufficient evidence of ability to succeed in sequential courses; “E” (failing) indicates inadequate mastery of pertinent skills or repeated absences from class; “UW” indicates unofficial withdrawal from class.

The following table indicates each grade variant and the equivalent grade points for that variation.

<table>
<thead>
<tr>
<th>One Credit of:</th>
<th>Equals Grade Points:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.4</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.4</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>1.4</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>E</td>
<td>0.0</td>
</tr>
<tr>
<td>UW</td>
<td>0.0</td>
</tr>
</tbody>
</table>

The following grades are not computed in the GPA:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>Official Withdrawal</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>AU</td>
<td>Audit</td>
</tr>
<tr>
<td>CR</td>
<td>Credit Granted</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit Granted</td>
</tr>
<tr>
<td>CEU</td>
<td>Noncredit—Continuing Education Unit</td>
</tr>
</tbody>
</table>
The GPA is determined by dividing the total grade points earned (credit hours times grade in points above) by the number of semester hours attempted.

Students may view final grades electronically on the UVLink system after the end of the semester. All financial obligations to the Institution and “holds” on academic records must be resolved before college transcripts are issued.

Incomplete (I) Grades

Students are required to complete all courses for which they are registered by the end of the semester. In some cases, a student may be unable to complete all of the course work because of extenuating circumstances. The term “extenuating circumstances” includes: (1) incapacitating illness which prevents a student from attending classes (usually more than five consecutive class days); (2) a death in the immediate family; (3) change in work schedule as required by employer; or (4) other emergencies deemed acceptable by the instructor.

If circumstances are deemed appropriate, the student may petition the instructor for time beyond the end of the semester to finish the work. If the instructor agrees, an “I” grade will be given. An Incomplete Grade Form indicating work completed and work to be completed must be signed by the student, the instructor, and the department chairperson, and turned into the Registrar’s Office at the end of the semester.

“I” grades should not be requested nor given for lack of completion of work because of procrastination or dissatisfaction with the grade earned. As a general rule, students must be passing the course and completed 70% or more of the course work in order to qualify for an incomplete.

Specific arrangements to remove an “I” grade must be made between the student and the instructor. In most circumstances, work to be completed should be finished in the first two or three weeks following the end of the semester in which the “I” was given.

Incomplete work cannot be completed by retaking the class. If such an option is preferred, the student must take the grade earned and then retake the class for a better grade. The grade for the later class will be calculated in the GPA. In all cases, the “I” grade must be made up within one year. If it is not, the “I” grade will change to an “E” on the transcript. “I” grades are not computed in the GPA.

Repeating a Course

No additional credit is allowed for repeating a course in which the initial grade was passing unless the course number for the course ends in the letter suffix “R” or “Z” (a course designed to be repeatable for credit). For other repeated courses, the most recent grade will be used in the calculation of the GPA. Upon successful completion of the repeated course, the repeat is indicated on the student’s transcript (E=Exclude, I=Include). All work will remain on the records, ensuring a true and accurate academic history. (Note: Although not used in computing the UVU overall GPA for UVU purposes, many graduate programs, such as law or dental school, include ALL grades in calculating an overall GPA for admissions criteria.)

Courses are not accepted from other institutions for the purpose of posting a repeat of a course already taken at UVU.

Board of Regents policy requires that students shall be charged at the full cost of the instruction tuition for repeating a course more than once, unless the institution determines that the repetition is a result of illness, accident or other cause beyond the student’s control or unless the course is prescribed by the student’s program of study. This affects all courses beginning January of 2003.

Changing a Grade Other than an Incomplete

Policy

Any student who has reason to believe that a grade assigned in a specific course was not justified has the right to appeal that grade.

Procedure

Student Action—

Grades may be appealed within one year of issuance in the following manner:

First, the student shall approach the instructor of the course as soon as possible after receiving the final grade. He/she has the right to discuss the merits of his/her appeal in an informal and non-threatening environment.

Second, after obtaining feedback from the instructor regarding rationale for assigning the original grade, and assuming dissatisfaction still exists at the conclusion of the first step, or if the original instructor is no longer available, the student has a right to submit a written appeal to the department chair, in a consultation setting.

Finally, if a mutual understanding cannot be reached in the second step, the student has the right to submit a formal written appeal through the Office of the Registrar to the University Academic Standards Committee, which exercises final authority in adjudicating the appeal.

Faculty Action—

During the first year after the issuance of a grade, an instructor for a specific class may submit a grade change form with proper documentation directly to the Records Office.

During the second through fifth years, the grade change form must be accompanied by an Academic Standards Petition filled out by the student and submitted by the course instructor or department chair directly to the registrar. If a grade change is requested and the faculty member who gave the original grade is no longer employed by UVU, the appropriate department chair may make the change if it is warranted.
Introduction

After five years, a grade change may be considered only where evidence exists to prove that an error occurred in the recording of the original grade or extreme extenuating circumstances existed. In the latter case, an Academic Standards Petition with appropriate documentation may be submitted to the Office of the Registrar for possible consideration by the University Academic Standards Committee.

When the Records Office receives a signed change of grade form from an instructor, the new grade(s) are entered into the computer. An explanation of the transaction is entered into the student’s record, including what the old and new grades are.

Withdrawal & Reinstatement

Withdrawal from Classes

For fall and spring semesters, if a student officially withdraws from a semester class during the first two weeks of the semester, no grade entry will appear on the permanent record. For summer semester and block classes, no grade entry will appear on the permanent record of students who officially withdraw from classes through the 100% tuition refund date.

For fall and spring semesters, if a student officially withdraws after the second week, but prior to the last day to withdraw, the withdrawal will appear on the permanent record as a “W.” For summer semester and block classes, if a student officially withdraws after the 100% tuition refund date, but prior to the last day to withdraw classes, the withdrawal will appear on the permanent record as a “W.”

If a student stops attending (but does not officially withdraw) beyond the last day to withdraw, he/she may receive a “UW,” the grade earned up to that point, or an “E,” at the instructor’s discretion.

“UWs” are calculated into the grade point average (GPA) as 0.00, the same as “E’s” (failing grades).

Administrative Drops and Withdrawals

Students may be dropped or withdrawn from classes by the administration if they: 1. register, but do not attend courses within the first three class periods of a semester; 2. register for courses for which they have not completed prerequisites; 3. neglect to pay tuition and fees for any given semester by the deadline published in the Student Timetable; or 4. other administrative reasons. Such changes to a student’s schedule could affect financial aid, scholarships, and/or refunds.

Withdrawal from the Institution

It is the responsibility of the student who withdraws from school to complete the online Leave of Absence process. Complete withdrawal from college may adversely affect financial aid and/or Veterans’ benefits.

Simply stopping attendance does not qualify as a withdrawal, and a student who does so may receive a failing grade.

Reinstatement

Students who withdraw from the Institution and then desire to be reinstated during the same academic semester may do so by obtaining clearance from the Registrar’s Office and completing the late registration process.

Student Military Leave Procedure

Students activated into military service during an academic semester for which they are currently enrolled have the following options to choose from, in addition to other alternatives provided by existing policy and regulation. The student is responsible to notify appropriate Institution officials regarding the implementation of the selected option.

1. A request to withdraw from school will be honored with a full refund of all tuition and fees paid. Non-punitive “W’s” will be recorded on the transcript and the date of action maintained on the student’s record.
2. Incomplete grades may be negotiated with individual faculty and/or departments based on realistic means of completing the required objectives of the course(s). Where recommended by the department (faculty), the time limit for completing the “I” may be extended. This option may include “home study” as a means of completing the required work with faculty approval and where practical.
3. Current grades (grades earned at the point of termination) may be issued at the discretion of individual faculty. This is also a negotiated option.

In all cases, the student activated into military service is eligible for readmission.

College Credit

College credit at UVU may be obtained through the following methods: 1. UVU Credit (includes Cooperative Education); 2. Transfer Credit; 3. Challenge Credit; 4. Foreign Language Challenge Credit; 5. Advanced Placement Credit; and 6. CLEP (College Level Examination Program).

1. UVU Credit

UVU credit is obtained through admittance to UVU, registering for classes, and satisfactorily completing all required course work. Courses completed through this method will receive a letter grade that will be used in calculating Grade Point Average (GPA).

Cooperative Education

Cooperative Education (Coop) offers another avenue for students to obtain UVU college credit. Students enrolled in cooperative education work as paid employees of a business, agency, or institution while enrolled at the Institution in classes related to their career. Academic credit for cooperative work experience is granted according to the number of hours a student works during the semester using the following formula:

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Minimum Hours of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>75</td>
</tr>
</tbody>
</table>
Coop credits are registered for at the same time and in the same manner as UVU credits. Courses completed through Cooperative Education will receive a credit/no-credit grade which is not included in the calculation of the GPA.

The maximum number of coop credits that may be applied toward a certificate is 8; a diploma is 14; an associate or bachelor’s degree is 16 credit hours. Departments define how coop credit is applied to specific programs. Additional coop credit may be taken (but not applied toward graduation) with approval of the cooperative education director and the appropriate dean.

2. Transfer Credit

It is the student’s responsibility to have official transcripts of any previous college work completed elsewhere sent to the UVU Admissions Office. Transcripts accepted as official by the UVU Admissions Office are automatically sent to the Transfer Credit Office for evaluation and posting. The Transfer Credit Office may require the student to supply the catalog, bulletin, or course outlines from previous schools attended to assist in determining the transferability of specific courses. Transfer credit may or may not apply to UVU graduation requirements, regardless of the number of credits transferred. The Transfer Credit Office will apply credit based on the appropriateness to specific degree program requirements and curricula.

Transfer courses with grades below "C-" will not be accepted by UVU. Transfer courses are not calculated in the GPA. Individual departments reserve the right to impose limits on the age and grade level of transfer credit. There is no limit to the number of transfer credits that may be accepted; however, UVU graduation requirements such as residence, total credits, and GPA must still be met.

Transfer courses will not be accepted from other institutions for the purpose of posting a repeat on a course already taken at UVU.

Courses in religion will be evaluated on the basis of the particular orientation of the course as determined by the UVU Religious Studies Committee. In order to be considered, these courses must be listed on an official transcript from a regionally accredited institution and must demonstrate scholarly rigor and critical engagement with the subject matter.

General Education for Transfer Students

For transfer students from any Utah State Higher Education institution, UVU shall accept at full value all General Education course work approved by the sending institution, provided it meets the minimum C- letter grade requirement, in any area specified by the Board of Regents document R470. These areas include Composition, Quantitative Literacy, Fine Arts, Humanities, Social and Behavioral Science, Biology and Physical Science. UVU shall require transfer students to complete any additional coursework needed to satisfy the unmet portions of the UVU General Education requirements. Previously completed General Studies course work shall be applied to assure the best possible fit with UVU’s General Education requirements. As each transfer student's requirements may vary, see the Graduation Office (BA 114) for specific requirements.

An AA or an AS degree earned at any USHE institution will meet the General Education requirements of UVU. The degree must include equivalents of our English, Mathematics, and American Institutions requirements or the student will have to fulfill these requirements separately.

Upper Division Course Work

Under rare circumstances, and only if subject content is equivalent, 1000 or 2000-level courses transferred from other institutions may be substituted for UVU upper-division courses. However, these courses will not satisfy upper-division credit-hour requirements. The baccalaureate degree requires a minimum of 40 hours of upper-division (3000 and 4000-level) credit.

U.S. Institutions outside of Utah

For transfer credit to be accepted by UVU, the institution from which credit is to be transferred must be accredited by one of the following regional associations:

- Middle States Association of Colleges and Schools (MSA)
- Northwest Commission on Colleges and Universities (NWCCU)
- North Central Association of Colleges and Schools (NCA)
- New England Association of Schools and Colleges, Inc./Commission on Institutions of Higher Education (NEASC-CIHE)
- Southern Association of Colleges and Schools/Commission on Colleges (SACS-CC)
- Western Association of Schools and Colleges/Accrediting Commission for Community and Jr. Colleges (WASC-Jr.)
- Western Association of Schools and Colleges/Accrediting Commission for Sr. Colleges and Universities (WASC-Sr.)

An AA or AS degree equivalent earned at one of these accredited institutions will meet General Education requirements at UVU. The degree must include equivalents of our English, Mathematics, and American Institutions requirements or the student will have to fulfill these requirements separately.

Non-accredited institutions may be accepted on an exception basis by individual departments.

Military courses are evaluated using the ACE recommendations from the Guide to the Evaluation of Education Experiences in the Armed Services.
Introduction

International and Foreign Institutions

The Graduation/Transfer Office, working with department academic advisors and faculty, is authorized to evaluate credit from foreign colleges, universities, and/or international Baccalaureate (IB) Diplomas after a student has been admitted to UVU. International students requesting transfer of credit from foreign institutions of higher education must submit a transcript from an approved Foreign Credentials evaluation Service. See BA 114 for a list of these accepted services.

Transfer courses from international and foreign institutions are not calculated in the GPA.

3. Challenge Credit/Experiential Credit

(Eligibility Examination and/or Documentation of Earned Competency)

No more than 25 percent of the minimum credits required toward a bachelor’s degree, and associate degree, diploma, or certificate of completion, may be awarded through experiential and/or challenge credit. Challenge credit and experiential credit are not eligible for use in a certificate of proficiency. Credit for courses that appear in the current catalog may be awarded to individuals who can prove through appropriate assessment and/or documentation that they have already acquired the equivalent knowledge and/or expertise required for successful completion of that course.

To receive experiential/challenge credit for a specific course, the student must

1. Be enrolled at the University.
2. For Challenge credit, complete a comprehensive examination (theoretical and/or applied) with at least a “C-” grade; or for Experiential credit, provide documentation of practical experience to the satisfaction of the department chairperson and dean showing course objectives have been met; or with the departmental approval, complete an advanced course with a grade of “C-” or higher (if deemed necessary by the department) as a validation procedure.
3. Pay, in advance, a nonrefundable processing fee.
4. After successful completion of requirements, pay the per-credit-hour fee.

A specific course shall be challenged only once, and a student shall not receive challenge/experiential credit for a course that the student is/or has been previously enrolled in and received a grade, including a “W” grade.

Duplicate credit will not be awarded.

Grades shall be recorded only as “CR” (credit) and shall not be calculated in a student’s university GPA.

4. Language Challenge Credit

Students may obtain an Experiential Language Credit Request Form in the UVU Languages and Cultures Department.

Students who have acquired proficiency in languages offered at UVU by means other than college courses (high school, foreign residency, etc.) may earn up to 16 credit hours. To qualify for these credits, a student shall complete a course in that language at a higher level than the credits for which he/she applies; and the grade in that course must be a “C-” or better.

To qualify for language courses not offered at UVU, a student may, as an alternative, take the appropriate language test at any accredited four-year institution and provide UVU with the satisfactory (C- or better) test results. In this circumstance, the student should meet with the Languages and Cultures department chairperson to ascertain the maximum language credits that may be applied to any degree from UVU.

Students unsure of their language skills should contact the Languages and Cultures Department for an assessment before registering for class(es).

Students who qualify for credit under the above provisions (for example, they register for, and successfully complete, Spanish 1010 with at least a “C-” grade, thus qualifying for the credits for the previous courses—1010 and 1020) must petition for those credits (application forms are available in the Languages and Cultures Department) and pay a fee for each credit hour. No additional tuition will be charged for those credits. The credits will be listed on transcripts as “CR” and are not calculated in the GPA.

Additional information regarding language challenge credit and other policies are available from the Languages and Cultures Department.

5. Advanced Placement Credit

Students who complete an Advanced Placement Exam through CollegeBoard may earn up to 8 academic credits per test with a score of 3, 4, or 5, as per the policies set forth by the Utah State Board of Regents. Students having AP test scores of 3 or higher should contact the Graduation/Transfer Office to ensure posting of the results to their UVU transcripts.

Specific equivalencies and acceptance criteria are updated annually, upon departmental faculty review and approval.

If all residence, credit, and grade point average requirements have been met, there is no limit to the number of Advanced Placement credits that may be accepted; however, duplicate credit for tests and course work shall not be applied.

6. CLEP Credit

(College Level Examination Program)

Students may receive college credit for CLEP exams as specified on the approved list in the Graduation/Transfer Office. Additionally, students intending to transfer to another institution from UVU should articulate with their intended transfer institution to gain advance information on how that institution accepts CLEP credit.

CLEP credit will be posted as a “CR” grade and will not be calculated in the GPA.

The amount of credit given through CLEP subject examinations is determined by the appropriate departments and in accordance with the Utah State Board of Regents policy.

The total amount of CLEP allowed toward graduation is considered with additional Challenge credit and will be no more than 25% of the degree being sought.
**Course Number System**

- **0000-0999** Remedial or preparatory noncredit courses; may not be counted toward a certificate, diploma, associate, or bachelor’s degree. Technical, nontransferable courses may count toward a certificate.

- **1000-2999** Lower division (freshman and sophomore courses); courses designed as transfer courses; count toward a certificate, diploma, associate, and/or bachelor’s degree.

- **3000-5000** Upper division (junior and senior courses); courses designed to count toward a bachelor’s degree, or any other degree as required by department.

- **6000** Graduate courses; regular courses in master’s level programs.

Learning Enrichment courses with 1000 level numbers do not satisfy General Education requirements for the associate or bachelor’s degrees. These classes may count as electives for the Associate in Arts, Associate in Science, and Bachelor of Science degrees.

The letter suffix “R” indicates that a course is repeatable for credit (example: PES 161R). Course descriptions indicate the number of “repeats” allowed.

Variable and partial credit is indicated by letter suffixes of “A,” “B,” “C,” etc. (example: ACC 201A = 4 credits and ACC 201B = 2 credits). Changing the hours of credit for a variable-credit class after registration may be done only through the add/drop (class change) procedure. Such changes must be made prior to completion of that partial course.

“Honors” credit courses are identified on the transcript by an “H” following the course number (example: ENGL 225H).

Global/Intercultural credit courses are identified on the transcript by a “G” following the course number (example: ANTH 101G).

**Undergraduate Academic Standards**

- **Academic Counseling Center**
  - Office: LC 402
  - Telephone: 801-863-8425

**Policy**

Academic standing is determined by the grades a student earns at UVU. A student with his/her most recent semester grade point average (GPA) and cumulative GPA of 2.0 or higher on a 4.0 scale is in good academic standing. When a full- or part-time undergraduate student fails to maintain a semester or cumulative GPA of 2.0 on a 4.0 scale, the student shall be notified of progressive academic intervention actions.

This policy does not include nor preclude additional program requirements that may be mandated by specific departmental majors.

**Procedures**

Academic intervention shall be applied progressively in the order described below.

**Alert Status**

When a student is not making adequate progress towards course completion and the instructor is unable to resolve the issue with the student, the student may be placed on alert status. A registration hold may be placed on the student’s record. The student must then meet with his/her academic advisor for guidance before the registration hold will be removed.

**Academic Warning**

When the semester GPA falls below 2.0 and the cumulative GPA is 2.0 or above, the student shall be placed on academic warning regardless of alert status. A registration hold shall be placed on the student’s record. The student must complete an academic success warning workshop and meet with his/her academic advisor before the registration hold will be removed.

**Academic Probation**

When the semester and cumulative GPA both fall below 2.0, the student will be placed on academic probation. A registration hold shall be placed on the student’s record. The student must complete an academic success probation workshop, develop an academic success plan, and meet with his/her academic advisor before the registration hold will be removed.

**Continued Academic Probation**

If the student on academic probation fails to raise the cumulative GPA to a 2.0 or above in the subsequent semester, the student will be placed on continued academic probation. A registration hold shall be placed on the student’s record and the student must prepare an academic success plan with his/her academic advisor as well as the academic standards counselor before the registration hold will be removed. The student may also be required to attend another academic success probation workshop and/or enroll in a college success class.

All students on continued academic probation will be required to submit an in-progress grade report to the Academic Standards Office in order to register for any subsequent semester(s). The student shall continue to receive advisement from the academic standards counselor, as well as his/her academic advisor, to monitor and promote academic progress.

**Academic Suspension**
Introduction

When on continued academic probation, a student receiving a semester and cumulative GPA below 2.0 in a subsequent semester shall be placed on academic suspension. The student shall be immediately dropped from enrollment in all current semester classes and a registration hold shall be placed on the student’s record. The student shall be suspended for a minimum of one full semester. During this time the student is expected to resolve all academic problems that led to the academic suspension.

To re-enroll at the University, a student must submit a Petition for Academic Suspension Review to the Academic Support Committee. This committee will make suggestions for specific customized interventions to be approved by the Academic Standards Committee. A decision shall then be rendered as to whether, and under what conditions, the student may continue to study at the University. The student must complete the requirements set forth by the Academic Standards Committee before the registration hold will be removed.

Academic Probation Returning from Academic Suspension

When the academic suspension petition is granted, the student is allowed to resume his/her academic studies under probation returning from suspension. This status allows the student to register for classes under the guidance of the Academic Standards Office, in conjunction with his/her academic advisor. As long as the student acquires a semester GPA of 2.0 or above in all subsequent semesters and abides by the conditions outlined by the Academic Standards Committee, the student may continue to enroll in classes. The student will remain on academic probation returning from academic suspension until the cumulative GPA is at or above 2.0.

Academic Dismissal

When failing to comply with the conditions set forth by the Academic Standards Committee while on academic probation returning from academic suspension, the student shall be dismissed from the University and immediately dropped from enrollment in all classes. A registration hold shall be placed on the student’s record.

The student may not re-enroll at the University or submit a Petition for Academic Dismissal Review for a minimum of one full calendar year from the date of academic dismissal. During this calendar year, the student may also be required to attend another institution and complete 18 credits with at least a 2.5 GPA. Upon review by both the Academic Support Committee and the Academic Standards Committee, a decision will be rendered as to whether or not, and under what conditions, the student may re-enroll at the University.

Any student who returns to the University after being dismissed will be placed on academic probation returning from academic dismissal and will be required to follow the academic plan outlined by the Academic Standards Committee.

Academic Probation Returning from Academic Dismissal

When the Petition for Academic Dismissal Review is granted by the Academic Standards Committee, the student is allowed to continue his/her academic studies on academic probation returning from academic dismissal. The student is allowed to register for classes under the guidance of the Academic Standards Office, in conjunction with his/her academic advisor. As long as the student acquires a semester GPA of 2.0 or above in all subsequent semesters and abides by the conditions outlined by the Academic Standards Committee, the student may continue to enroll in classes. The student will remain on probation returning from dismissal until the cumulative GPA is at or above 2.0.

When a student is unsuccessful at this level and does not have the ability to benefit from continuing with his/her education at the University, academic counseling will be provided by the Academic Standards Office to explore alternative pathways to success.

Appeals

When the student’s Petition for Academic Suspension Review or Petition for Academic Dismissal Review is denied by the Academic Standards Committee, the student may present an appeal to a hearing panel that consists of the Academic Standards Committee and a representative appointed by the President of the Utah Valley University Student Association (UVUSA). After review of the petition, the hearing panel will determine if the student’s appeal is granted or denied. If the appeal is granted, the hearing panel shall determine the conditions for re-enrollment at the University.

If the student is unsatisfied with the hearing panel’s decision, the student has the right to appeal in writing to the Vice President of Academic Affairs.

Academic Renewal

For students who are challenged with a low GPA or for those who have experienced a period of low grades that does not reflect their academic potential, UVU offers academic renewal. A student is allowed to petition the Registrar for academic renewal only one time during his or her enrollment at the University. This process shall remove a limited amount of previous academic work from the student’s GPA and from credit toward graduation. To be eligible a student shall meet the following conditions at the time the petition is filed:

1. The student must be currently enrolled at UVU.
2. A minimum of two years has elapsed since the most recent course work to be eliminated was completed.
3. The student has completed at least 30 semester hours of UVU course work with a minimum cumulative GPA of 2.50. These 30 hours shall have been completed after the course work the student is requesting to eliminate.
4. The student's cumulative GPA is below the level necessary for graduation in his or her current program of study. In most instances, this is a 2.0 cumulative GPA.
5. The requested course work has not been used toward an existing degree.

The student may request a maximum of two specific semesters/terms of academic course work be eliminated from his or her earned credits and cumulative GPA. Individual courses shall not be accepted.

If the petition qualifies under this policy, the student’s permanent academic record shall be annotated to indicate that no work taken during the disregarded semester(s) and/or term(s), even if satisfactory, shall apply toward earned credits, GPA, academic standing, and/or graduation requirements. All work shall remain on the records, ensuring a true and accurate academic history. The words “Academic Renewal” and the affected semester(s)/term(s) shall be annotated on the student’s transcript.

Academic renewal shall not be requested to earn or change academic honors status on a student’s transcript.

No exceptions shall be made to this policy. Students shall be aware that this policy may not be accepted at transfer institutions, and all credit, including those with academic renewal, may still be calculated by the transfer institution.

Academic Distinction

The Dean’s list recognizes those who have demonstrated outstanding academic performance during a term or semester. To be eligible:

1. The student must complete 12 semester hours or more in any semester and a commensurate number of hours in any term.
2. The student must earn a semester GPA of 3.6 or above.

Accreditation

Utah Valley University is accredited by the Northwest Commission on Colleges and Universities.

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution’s accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

- Northwest Commission on Colleges and Universities
  - 8060 165th Avenue N.E., Suite 100
  - Redmond, Washington 98052-3981
  - 425-558-4224
  - www.nwccu.org

In addition, some programs or majors have other specialized accreditation.

Web: www.uvu.edu/accreditation/specialized.html

Gainful Employment

Web: http://www.uvu.edu/hr/jobs/

Gainful Employment information is provided in compliance with the U.S. Department of Education’s disclosure requirements for programs eligible for Title IV financial aid that prepare students for gainful employment in a recognized occupation as required in 34 CFR 668.6(b). All programs list the following information: CIP Code, Level of Program, Program Length, Tuition and required fees, Estimated costs for books and supplies, Debt at program completion, Program completion in Normal Time, Job Placement, and Related Occupations. Gainful Employment Program Disclosure is listed on all marketing materials for potential students.

Admissions

Admissions

- Office of Admissions
  - Office: BA 115
  - Telephone: 801-863-8706

Admissions Policy

Utah Valley University maintains an open admissions practice, admitting all applicants whose qualifications indicate they may benefit from the instructional programs offered.

The University does, however, have enrollment standards. In order to help students enroll in courses that match their academic preparation and ability, admission to the University requires that every student adhere to the established admission deadlines and provide all application materials as stipulated by the university including: ACT/SAT scores, an official high school and/or college transcripts, and a $35 application fee. Returning/Transfer students are required to submit transcripts from all colleges/universities they have attended. After being admitted, most students are required to meet with an advisor to be guided through a personalized enrollment process.

State Authorization Requirements for Online courses and programs

Utah Valley University delivers online education programs and courses throughout the United States and abroad. Recent amendments to the Higher Education Act of 1965 include changes to a regulation on State authorization that impacts online and distance education providers. The regulation changes are designed to address the growing population of
Introduction

students residing at a distance and pursuing university-level education online by requiring institutions to meet any State requirements to be legally offering online education in that State.

UVU is working to comply with these changes by seeking authorization to deliver online courses and programs outside Utah borders. If you wish to register for UVU online courses while residing outside of Utah, please visit our State Authorization [http://www.uvu.edu/otl/state-authorization.html] website to check UVU’s status for your state.

Admissions Procedure

UVU is committed to the concept of equal opportunity without regard to race, color, disability, religion, age, sex, national origin, or other legally impermissible factors.

Age Exception

New freshmen under the age of 17 and who have not graduated high school seeking admission must apply for exception through the Admissions Office. The student must submit all required documents for admission and demonstrate through assessment testing the ability to succeed. After meeting with the student in person, the Director or Assistant Director of Admissions will make the final determination for admittance.

Students are required to be in the non-degree seeking status High School Concurrent Enrollment (HSCE) until they graduate from high school, receive a GED or are beyond compulsory high school age. Students are required to take ACT/ACT-R testing and at a minimum must qualify to enter English and Math at a college level (1010 or above.)

Enrollment

Admission to the University does not constitute admission into an individual major or program of study. Some programs of study may require an additional program admission process. In programs or courses with limited openings (or seats), enrollment is based on a “first-come, first-served” procedure, assuming prerequisites have been satisfied.

Specific Program Screening

Some programs or majors of the institution are accredited by professional or technical organizations which may recommend certain minimum standards for entrance into the program. Other programs may require prerequisite skills or knowledge that are specific to entry-level courses required for that major.

Admission Steps

To be officially admitted to the University, an applicant must submit the following to the Office of Admissions:

1. Complete the online Application for Admission available at: www.uvu.edu/admissions.
2. Application Fee: Nonrefundable, $35 application fee accompanying first undergraduate, $15 for each returning/readmitting undergraduate application for admission, $45 for each graduate application for admission, $100 for international application for admission, $145 for each international MBA application. Application deadline for undergraduate admissions: fall semester, Aug. 1st; spring semester, Dec. 1st. Application deadlines for graduate admissions are set by the school to which the applicant is applying.
3. Official Transcripts: All High School/College/University transcripts must arrive at UVU in an unopened envelope from the sending institution and must be printed with in the last six months to be considered official. High school transcripts can be considered official if they are emailed from the high school counselor to admissions@uvu.edu or faxed, with a cover sheet from the high school, to 801.863.8913. Items must be received or postmarked before the admissions deadline.
4. Official ACT or SAT scores: Current ACT or SAT test scores are required for all students under the age of 20, and current either ACT/SAT or Accuplacer is required for all students regardless of age. Send official test scores to the Office of Admissions. If the ACT or SAT have not been completed or are expired (two years for math, three years for English), ACT-R or Accuplacer can be taken at Testing Services in the Wolverine Services Center.

Acceptance and resident status will be determined by the Office of Admissions. A declaration of major is accomplished through the Application for Admission. Students desiring to change their major after acceptance to the University are required to do so with the academic advisor for their newly desired major.

Resident Classification

Resident tuition applies to residents of the State of Utah.

Utah Valley University will determine student residency in accordance with Utah Law and the State Board of Regents Policy R512.

Nonresident students should note that residency does not change automatically. Students are required to submit a Residency Application with appropriate documentation to the Office of Admissions for review and approval before residency status can be changed.

Applicants for residency classification should allow three to four weeks for a review and determination of his/her residency. All communication regarding residency will be through UVLink. Students should check their UVLink account regularly, for updated information or documentation requests.

Applications for residency for any given semester must be received before the deadline posted on the Residency Application. In accordance with the residency policy, all changes in residency classification must be completed before the 3rd week of each semester. Applications/Supporting documentation received after the 3rd week of the semester will not be considered until the next semester. Residency changes are not retroactive. Please check your status and deadlines before registering for classes.

Returning Students

Students returning to UVU after a break of seven semesters or more are required to reapply for admission. A $15 readmission fee will be assessed to returning students. If the student has attended a College/University since their last attendance at UVU an official transcript from each institution attended is required before acceptance back into UVU.

Veterans

Veterans considering enrollment are encouraged to contact the UVU Veterans Services Office (WB 100) during the admissions process to receive assistance in planning programs of study and applying for educational benefits.

Senior Citizens
Utah residents, age 62 and over, may enroll on an audit basis in any University class offered (as space is available) by completing an Application for Admission and paying the $35 application fee. One Stop will issue an audit form to be signed by the instructor. A $20 registration fee, which covers all costs except books and special lab and course fees, is required each semester. This policy does not apply to specialized workshops.

Senior citizens desiring credit for courses taken should register according to regular admissions policies and procedures.

International Students: F-1 Immigration Status

The University is authorized under federal law to enroll non-immigrant alien (international) students. An international student is defined as an individual who is legally domiciled in a country other than the United States of America at the time of application for admission to UVU. International students must be 18 years or older for admittance.

I-20 Certificate of Eligibility

This document issued by the designated international student admissions officer to international students with non-immigrant status, is to be used to apply for an F-1 Visa to the United States.

Only persons who do not intend to remain permanently in the United States and who have adequate financial resources are eligible for such status.

Educational Costs

An estimate of an academic school year costs, as determined by UVU, is stated on the I-20 form prior to issuance to the student. The American Consul uses this information to determine the adequacy of the applicant’s financial resources.

Affidavit of Support

UVU requires international applicants (with their sponsors) to submit an “Affidavit of Support” for an International Student at UVU. The affidavit states that a sponsor is legally bound to financially support the applicant. Upon satisfactory completion of other admission requirements, the affidavit is returned to the prospective student with the I-20, which may then be presented to an American Consul or Embassy to gain an F-1 Visa.

Transcript of Credits

This is an official copy of the permanent academic record of the student’s high school (12th grade equivalency) and/or college grades. It is used by UVU to determine admission qualifications.

TOEFL or IELTS

The TOEFL (Test of English as a Foreign Language) is a confidential examination given through procedures designed to protect its security before, during, and after its administration. Scores over one-year old are not acceptable. Information for TOEFL may be obtained by contacting www.ets.org/TOEFL. We will also accept the IELTS test for English proficiency. Information for IELTS can be obtained at www.ielts.org.

A minimum score of 500 written test, 173 computer based, or 61 for internet based test for TOEFL an IELTS score of 5.5 is required for admittance to an undergraduate level program at UVU. No scores are needed for admittance to the Intensive English program. Certain majors may require higher scores before acceptance into major.

Note: Assessment tests are administered to all incoming students. The results of that exam determine first semester classes.

Financial Aid & Scholarships

International students are not eligible for scholarships or financial aid from the United States Government.

Academic Load

An international student is required to carry a minimum of 12 hours of credit that apply toward a major each academic semester of fall and spring. Summer is optional unless it is the student’s first semester at UVU or the student has attended school for more than one year and uses a semester other than summer as a vacation. The 12 credit-hour requirement may not include repeated classes or audit classes.

Hospitalization & Health Insurance

UVU recommends that international students acquire appropriate insurance while in school. Information can be obtained at the UVU Student Health Services Office.

Tuberculin Skin Test

Each international student must independently acquire a Tuberculin Skin Test after entering the United States. This may be obtained at the Student Health Services office on campus or the Utah County Health Department. Written results must be submitted to Student Health Services prior to registering for classes. An international student transferring from another institution within the United States may present written results from a previous skin test.

Essential Learning Outcomes

Essential Learning Outcomes (ELO)
Introduction

The Essential Learning Outcomes (ELOs) are a comprehensive set of learning goals that are fostered and developed across a student’s entire educational experience. They reflect the knowledge, skills, and competencies needed to meet the challenges of an ever-changing and complex world. The ELOs prepare students for future employment, life, and citizenship. With the achievement of these outcomes, UVU graduates will possess breadth and depth of knowledge, highly developed intellectual and practical skills, commitment to personal and social responsibility, awareness of the interdependence of communities, and the ability to synthesize and apply their learning to solve complex real-world problems.

Integrative and Applied Learning:
A student will engage in discipline-appropriate experiences with the academic and broader community through integrated and applied learning.

Intellectual and Practical Skills Foundation:
A student will acquire a foundation of intellectual and practical skills including communication, quantitative reasoning, qualitative reasoning (critical, analytical, and creative thinking), and technical and information literacies.

People of Integrity:
A student will become personally and socially responsible by acquiring, developing and demonstrating skills in ethical reasoning and understanding.

Professional Competency:
A student will demonstrate professional competence by meeting the established standards of the discipline, working as a valued member of a team, effectively formulating and solving problems, and actively seeking and honing lifelong learning skills.

Stewards of Place:
A student will demonstrate stewardship of local, national, and global communities by cultivating awareness of: interdependence among those communities; issues within those communities; and organizations and skills that address such issues.

Knowledge Foundation:
A student will demonstrate knowledge of human cultures and the physical and natural world in the following areas of essential study: arts, history, humanities, languages, science and mathematics, social sciences. Knowledge Foundation refers to GE Distribution courses and other courses and experiences within the major.

Financial Aid & Scholarships

Scholarship Application Procedure
To apply for scholarships you must:

1. Be admitted to UVU
2. Know your UV Link ID
3. Submit your transcript(s) (either High School if just graduated or college if transferring)
4. Submit ACT or SAT scores (if applicable)
5. Submit the online scholarship application to be considered for additional scholarships. The online scholarship application is comprehensive, so your application will be reviewed for all possible scholarships for which you might be eligible.

Scholarship Application Deadlines

- February 1 New and transfer student scholarship application deadline for all UVU and private scholarships.
- March 1 Continuing student scholarship deadline for all UVU and private scholarships.
- December 1 Spring only scholarship deadline for new and transfer students for academic scholarships only.

Financial Aid Application Procedure

The content contained in this section is subject to change based on federal and state regulations. Financial aid is designed to bridge the gap between the costs of attending UVU and what students and their families are expected to pay. To be considered for financial aid:

1. Be admitted to UVU.
2. Complete the Free Application for Federal Student Aid (FAFSA) at www.fafsa.gov. You will need to use your prior year federal tax return information (2014). UVU’s school code is 0040207.
3. Complete any necessary unsatisfied requirements listed in your UVLink account at uvlk.uvu.edu. Log into UVLink: click on the Student tab, click Financial Aid, Select Aid year 2015-2016. Check your financial aid requirements often as additional information requirements may be added at any time, even after your aid has disbursed. You must meet all general and program eligibility requirements in order to receive federal financial aid. For more information on eligibility requirements please visit the Financial Aid and Scholarships website at www.uvu.edu/financialaid.
4. Accept your Terms and Conditions and award through your UVLink account. Only grants are automatically accepted. You must accept all other financial aid awards. Log into UVLink: click on the Student tab, click Financial Aid, click on Award, clock on Award File, Select Aid year 2015-2016, Accept Award Offer.
5. All students receiving a Stafford loan for the first time at UVU must complete entrance loan counseling at www.studentloans.gov. Note: All students will receive a loan counseling requirement under their UVLink account. This requirement will not appear on your UVLink account until the loan has been awarded. Only students accepting a loan will need to complete loan counseling.

6. E-sign your master promissory note (MPN) at www.studentloans.gov three to five days after you accept your loan(s). You must be enrolled in at least six eligible credit hours (waitlist hours, audited courses, and some repeated courses, are not enrollment hours) and have met all other financial aid requirements to receive a loan.

7. The Financial Aid and Scholarships Office communicates to students through UVLink and UVLink email. Financial Aid rules change often and could impact your requirements and awards that you may have already received. If requested.

To ensure your financial aid funds are available to you on the first day of each semester, you must have a completed financial aid file by the following dates.

- Fall: August 1st
- Spring: December 1st
- Summer: April 1st

In order to process your financial aid application, you must have a valid FAFSA and must meet all eligibility requirements by the last day of the semester for which you are enrolled or June 30, 2016, whichever is sooner. Files will not be processed beyond this date. Students may only be awarded retroactively in the aid year for semesters during which they met and maintained Satisfactory Academic Progress standards.

Clearly label all pages of all forms or documents with your name and UV ID. All forms or documents must be signed. Failure to sign and label all paperwork with your name and UV ID will delay your financial aid.

The Financial Aid Award

Awards for each of the Federal and State Student Aid programs are based on some form of financial need; beginning with a student’s cost of attendance (COA). Unlike scholarship programs that may award funds based on academic merit, need-based grants, loans, and work study are based on the family’s demonstrated financial need for assistance. Financial need is also determined by the student’s Expected Family Contribution (EFC), which is calculated by the information listed on the FAFSA.

The COA is an estimate of the student’s educational expenses for a period of enrollment. The types of costs that may be included in a student’s COA are determined by law. The amounts associated with the types of costs are determined annually and can be viewed on the Financial Aid and Scholarships website.

In addition the Federal Government has established eligibility requirements the student must meet. If all eligibility requirements have been met and financial need is demonstrated, assistance from scholarships, grants, loans, or part-time employment may be offered. All awards are calculated based on each academic year. Students must complete a FAFSA application each year.

Students will be notified about their eligibility requirements through their UVLink accounts. Notice of their financial aid award will be sent to their UVLink account. For further information the financial aid awards please see the Financial Aid and Scholarships website www.uvu.edu/financialaid.

Financial Aid Policies and Consumer Information

Financial Aid policies can be found at www.uvu.edu/financialaid.

Consumer information can be found at www.uvu.edu/compliance/heastudentconsumer.html

For additional information on financial assistance or help completing forms, please contact:

- Financial Aid & Scholarship Office
  - Utah Valley University
  - BA-105, Browning Administration
  - 800 W. University Parkway
  - Orem, Utah 84058-5999
  - Telephone: 801-863-8442
  - Fax: 801-863-8448

Financial Aid Webpage: www.uvu.edu/financialaid

Scholarship webpage: www.uvu.edu/financialaid/scholarships

General Education

General Education

General Education Information

General Education is a shared academic experience that provides students with the opportunity to explore new subjects, intellectual traditions, and perspectives; expands their awareness of the wider world; and prepares them with foundational knowledge, skills, and abilities that are expanded on in their disciplines of study in order to be successful learners and professionals positioned to contribute to their broader communities.
Completion of the UVU General Education requirements will fulfill the General Education requirements at all colleges and universities within the Utah System of Higher Education. However, certain majors, both at this institution and other Utah institutions, may require specific General Education courses. While UVU has not articulated these courses with higher education institutions outside the State of Utah, they will generally articulate to other regionally accredited colleges and universities in the United States. It is the responsibility of students to complete the appropriate General Education courses required by their departments regardless of the generalized list printed in this catalog.

Note: Students taking General Education courses without having declared a specific major are advised in the Academic Counseling Center, LC 402, telephone 801-863-8425. Students who have declared a specific major that is taught at UVU will be directed to the appropriate academic advisor upon completion of new student orientation and assessment activities.

Department Articulation Agreements

In addition to General Education courses, many departments have articulated specific courses that transfer to help fulfill baccalaureate degree requirements. Information concerning these courses may be obtained from UVU department advisors or the Graduation and Transfer Services Office, BA 114.

General Education Code System

General Education course designator codes (Attributes) aid students and transfer institutions to identify how General Education courses meet graduation requirements. The following list identifies General Education core and distribution courses as they apply to the Associate in Arts/Science Degrees and Bachelor of Arts/Science Degrees, and can be used to search the registration menu:

AS - American Institutions
BB - Biology
CC - English Composition
FF - Fine Arts
HH - Humanities
LH - Foreign Language
PP - Physical Science
SS - Social Science
QL – Quantitative Literacy
XF - Must be taken with another course to equal FF (see department)

General Education Requirements

Associate in Arts/Science Degrees and Bachelor of Arts/Science Degrees

These requirements satisfy the General Education requirements for both the Associate in Arts and the Associate in Science Degrees, as well as the Bachelor of Arts and the Bachelor of Science Degrees at UVU, taking into account adjustments that may be required by academic departments to fulfill their specific needs. Honors courses with the same prefix and number also satisfy distribution requirements. Total core and distribution is 35 credits.

Core Requirements

These courses provide basic skills in logic, math, written and oral communications, health, and fitness.

<table>
<thead>
<tr>
<th>Complete the following for 6 credits:</th>
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<tr>
<td>ENGL 1010/101H Introduction to Writing</td>
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<tr>
<td>and</td>
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<tr>
<td>ENGL 2010/201H Intermediate Writing—Humanities/Social Science</td>
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<tr>
<td>or</td>
</tr>
<tr>
<td>ENGL 2020/202H Intermediate Writing—Science and Technology</td>
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</tbody>
</table>

Complete one of the following for either 3 or 4 credits:

Students should enroll in Math 1030 unless Math 1040 is recommended for their major or they are planning to enroll in courses requiring Math 1050 as a prerequisite.

| MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) |
| or |
| MATH 1040 Introduction to Statistics (recommended for Social Science majors) |
| or |
| MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors*) |
or
One MATH course that requires MATH 1050 as a prerequisite (excluding MATH 1060)
or
An Advanced Placement (AP) Mathematics Test with a score of 3 or higher.

**Complete the following for 5 credits:**

PHIL 2050/205G/205H Ethics and Values
and
HLTH 1100 Personal Health and Wellness
or
PES 1097 Fitness for Life

*All other majors should check with their advisor for the correct course.

**American Institutions**

**Complete one of the following for 3 credits:**

POLS 1000 American Heritage
HIST 2700 and 2710 US History to/since 1877
HIST 1700/170H American Civilization
HIST 1740 US Economic History
POLS 1100 American National Government

**DISTRIBUTION Requirements**

**(18 CREDITS)**

From Science, Humanities, Fine Arts, and Social/Behavioral Science

**A. SCIENCE**

All Majors must complete One course of Biology (BIOL 1010 or BIOL 1610 highly recommended), One course of Physical Science and One additional course from either of those two areas for a minimum total of 9 credits. One Lab Course is recommended.

**Biology**

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<tr>
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<td>BIOL 204R</td>
<td>Natural History Excursion*</td>
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<td>BOT 2400</td>
<td>Plant Kingdom</td>
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<td>HLTH 3400</td>
<td>Human Diseases</td>
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<td>MICR 2060</td>
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<td>NUTR 2020</td>
<td>Nutrition Through Life Cycle</td>
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<td>ZOOL 1090</td>
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Physical Science

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<tr>
<td>ASTR 1050</td>
<td>Investigations of the Solar System</td>
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<td>ASTR 1060</td>
<td>Investigations of Stars and Galaxies</td>
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<tr>
<td>ASTR 1070/107H</td>
<td>Cultural Astronomy in Our Lives</td>
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<td>ASTR 1080</td>
<td>Life in the Universe</td>
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<td>GEO 1080</td>
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<td>Climate of the Earth</td>
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<td>PHYS 1700</td>
<td>Descriptive Acoustics</td>
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<td>PHYS 1800</td>
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<td>Physics for Scientists/Engineers I</td>
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<td>Physics for Scientists/Engineers II</td>
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<tr>
<td>TECH 1010</td>
<td>Understanding Technology*</td>
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*May be used as the third science only

B. HUMANITIES — One course minimum

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<td>CHIN 202G</td>
<td>Intermediate Chinese II</td>
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<td>Critical Intro Cinema Studies</td>
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<td>CINE 217G</td>
<td>Race Class and Gender in US Cinema</td>
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<td>COMM 1020</td>
<td>Public Speaking</td>
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<td>Introduction to Speech Communication</td>
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<td>COMM 1500</td>
<td>Introduction to Mass Communications</td>
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<td>COMM 217G</td>
<td>Race Class and Gender in US Cinema</td>
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<td>ENGL 2030</td>
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<td>Science Fiction</td>
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<td>Myths/Legends in Literature</td>
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<td>Creative Process/Image Writing</td>
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<td>Shakespeare</td>
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<td>Technical Communication</td>
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<td>American Literature before 1865</td>
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<td>American Literature after 1865</td>
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<td>British Literature before 1800</td>
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<td>Adventures Ideas Through 1500</td>
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<td>PHIL 1250</td>
<td>Intro to Logic and Critical Thinking</td>
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<td>Intro To Western Religions</td>
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<td>Ancient Greek Philosophy</td>
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<td>PHIL 2130</td>
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<td>Early Modern Philosophy</td>
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<td>PORT 202G</td>
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<td>RUS 202G</td>
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<td>SPAN 202G</td>
<td>Intermediate Spanish II</td>
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**C. FINE ARTS — One course minimum**

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<td>Introduction to Visual Arts</td>
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<td>ART 1020</td>
<td>Basic Drawing Non Majors</td>
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<td>ART 1050</td>
<td>Photography I</td>
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<td>ART 1110</td>
<td>Drawing I</td>
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<td>ART 1340</td>
<td>Sculpture I</td>
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<td>ART 1350</td>
<td>Ceramics I</td>
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<td>ART 1650</td>
<td>Watermedia I</td>
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<td>Fundamentals of Art Education</td>
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## Introduction

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<td>History of Art to the Renaissance</td>
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<td>History of Art from the Renaissance</td>
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<td>DANC 1010</td>
<td>Dance as an Art Form</td>
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<td>Orientation to Dance</td>
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<td>Architectural Rendering</td>
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<td>MUSC 1030</td>
<td>American Popular Music</td>
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<td>Fundamentals of Music</td>
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<td>THEA 1023</td>
<td>Introduction to Film</td>
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<td>THEA 1033</td>
<td>Acting I</td>
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<td>Theatre and Drama Elem School</td>
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<td>THEA 2311</td>
<td>Film History I</td>
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Complete 2 of the following to equal 1 Fine Arts Distribution course*

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<td>Dance in Elementary School*</td>
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<td>MUSC 3400</td>
<td>Music in Elementary School*</td>
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## D. SOCIAL/BEHAVIORAL SCIENCE — One course minimum

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<td>Biological Anthropology</td>
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<td>ANTH 180G</td>
<td>Introduction to American Indian Studies</td>
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<td>ARCH 1100</td>
<td>Introduction to Archaeology</td>
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<td>BESC 107G</td>
<td>Multicultural Societies</td>
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<td>CJ 1010</td>
<td>Introduction to Criminal Justice</td>
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<td>Interpersonal Communications</td>
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<td>Economics As Social Science</td>
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<td>Microeconomics</td>
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<td>Emergency Preparedness in Communities</td>
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<td>FAMS 1150</td>
<td>Marriage and Relationship Skills</td>
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<td>FIN 1060</td>
<td>Personal Finance</td>
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<td>Survey of World Geography</td>
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<td>Introduction to Human Geography</td>
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<td>Geography of U.S</td>
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<td>World History to1500</td>
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<td>US Economic History**</td>
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<td>HIST 180G</td>
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<td>HIST 2700</td>
<td>US History to 1877**</td>
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<td>HIST 2710</td>
<td>US History since 1877**</td>
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<td>HIST 4320</td>
<td>History of Scientific Thought</td>
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<td>Machines in the Making of History</td>
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<td>HLTH 2600</td>
<td>Drugs, Behavior and Society</td>
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<td>HLTH 2800</td>
<td>Human Sexuality</td>
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<tr>
<td>HLTH 3000</td>
<td>Health Concepts of Death/Dying</td>
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</table>
LEGL 1000  Intro to American Law  3.0
MGMT 1010  Introduction to Business  3.0
MGMT 2030  Women in Business  3.0
MGMT 2110  Interpersonal Communication  3.0
POLS 1000  American Heritage**  3.0
POLS 1010  Introduction to Political Science  3.0
POLS 1100  American National Government**  3.0
POLS 2100  Intro to International Relations  3.0
POLS 2200  Intro to Comparative Politics  3.0
PSY 1010/101H  General Psychology  3.0
PSY 1100  Human Development: Life Span  3.0
PSY 2800  Human Sexuality  3.0
SOC 1010/101H  Introduction to Sociology  3.0
SOC 1200  Sociology of the Family  3.0
TECH 2000  Technology and Human Life  3.0

**If not used as Core Requirement

Additional Guidelines for Completion of the Associate in Arts/Science Degrees

The Associate in Arts and the Associate in Science Degrees are designed to complete General Education requirements and could complete lower division pre-majors for baccalaureate degrees at UVU or other colleges or universities.

The General Education courses shown above constitute the majority of the credits required for these degrees. In addition to the General Education requirements, these degrees require 25 additional credit hours.

Associate in Arts Degrees require 8 hours of these 25 hours to be from the same recognized foreign language.

See your specific academic department for further information on appropriate course work to complete a pre-major or the remaining 25 hours. The Academic Counseling Center (LC 402) has some specific outlines available to transfer to other institutions.

Associate in Applied Science Degrees

This is a general outline. Refer to the department or Graduation Office for specific requirements. A total of 16 credit hours is required. Students must have a minimum of three credits in each area, except "F" (Physical Ed/Health/Safety/Environment).

A. ENGLISH complete for 3 credits:

ENGL 1010/101H Introduction to Writing

or

MKTG 2200 Business Communication

B. MATHEMATICS complete for 3 credits:

MAT 1000 Integrated Beginning and Intermediate Algebra

or

MAT 1010 Intermediate Algebra

or

Any Higher Mathematics course

or

Any approved Departmental Mathematics Course

C. HUMANITIES/FINE ARTS/FOREIGN LANGUAGE complete for 3 credits:

PHIL 2050/205G/205H Ethics and Values (Highly recommended)

or

Any approved Humanities, Fine Arts, or Foreign Language Distribution Course
Introduction

D. SOCIAL AND BEHAVIORAL SCIENCE complete for 3 credits:

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<td>MGMT 3000 Organizational Behavior</td>
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<td>or</td>
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<tr>
<td>Any approved Behavioral Science, Social or Political Science Distribution Course</td>
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E. BIOLOGY OR PHYSICAL SCIENCE complete for 3 credits:

Any approved Biology or Physical Science Distribution Course

F. PHYSICAL ED/HEALTH/SAFETY OR ENVIRONMENT complete for 1 credit

Any approved Physical Education, Health, Safety or Environment Course

Transfer Information

For students transferring to four-year Institutions, Colleges, and Universities in the Utah System of Higher Education.

UVU courses numbered 1000 or above will transfer within the Utah System of Higher Education. However, the application of these courses toward graduation is determined by academic departments of receiving institutions.

For students transferring to colleges and universities in the Utah System of Higher Education before earning an Associate in Arts or an Associate in Science Degree, or a Bachelor of Arts or a Bachelor of Science Degree, a certified letter verifying completion of the UVU General Education requirements may be requested from the Graduation Office. This letter will cause the gaining institution (run by the State of Utah) to accept the completion of UVU General Education requirements as fulfilling all of the General Education/Liberal Education requirements of the gaining institution.

Note: Completion of an Associate in Arts/Science Degree waives only General Education requirements. It does not waive the necessary hours to graduate. A student transferring to another institution should check with that institution to see how their credits have been accepted toward their degree.

Private, Parochial, or Out-of-State Colleges & Universities

Since these schools are not bound by Utah State Regent's policies, colleges/universities outside the Utah System of Higher Education may have specific requirements and may not accept all courses available at UVU. Students should contact the institution they are transferring to in order to determine how their credits will be accepted.

Brigham Young University

Brigham Young University accepts the Associate in Arts/Science Degrees for completion of its General Education requirements. Courses with grades of “D+” or lower will not transfer. Some departments at BYU have specific General Education course requirements that will still need to be taken at BYU. Individual departments at BYU should be consulted for exceptions.

Note: BYU has a limit on the number of transfer students admitted.

General Information

General Information

Mission

Utah Valley University is a teaching institution which provides opportunity, promotes student success, and meets regional educational needs. UVU builds on a foundation of substantive scholarly and creative work to foster engaged learning. The university prepares professionally competent people of integrity who, as life-long learners and leaders, serve as stewards of a globally interdependent community.

Core Themes & Objectives

Student Success: UVU supports students in achieving their educational, professional, and personal goals.

- Objective 1: UVU supports students’ preparation for and achievement of academic success at the University.
- Objective 2: UVU provides a meaningful and well-rounded university experience.
- Objective 3: UVU prepares students for success in their subsequent academic, professional, and lifelong learning pursuits including serving as leaders, people of integrity, and stewards of their communities.

Serious: UVU fosters a culture of academic rigor and professional excellence.

- Objective 1: UVU champions learning through outstanding teaching in an academically rigorous environment.
- Objective 2: UVU supports a culture of scholarship and creative work and promotes accomplishment in cultural, academic, and co-curricular/extramural endeavors.
- Objective 3: UVU attracts, develops, and retains high achieving students and highly qualified faculty, staff, and administrators.
• Objective 4: UVU is recognized for high-quality, efficient and effective programs and services.

Engaged: UVU engages its communities in mutually beneficial collaboration and emphasizes engaged learning.

• Objective 1: UVU faculty and staff engage students using real-world contexts within the curriculum and activities outside the classroom to increase professional competence and confidence.
• Objective 2: UVU fosters partnerships and outreach opportunities that enhance the regional, national, and global communities.
• Objective 3: UVU serves as a portal of civic engagement and an engine of regional economic and business development.

Inclusive: UVU provides opportunity for individuals from a wide variety of backgrounds and perspectives and meets regional educational needs.

• Objective 1: UVU provides educational opportunity for a broad range of students.
• Objective 2: UVU provides an inviting, supportive environment and a balance of activities and services for people from a wide variety of backgrounds and perspectives.
• Objective 3: UVU offers an array of programs from certificates to masters, including non-credit programs, designed to reflect students’ goals and the region’s needs.
• Objective 4: UVU utilizes a variety of schedules, locations, and delivery methods that best meet students’ needs.

Essential Learning Outcomes

Integrative and Applied Learning: A student will engage in discipline-appropriate experiences with the academic and broader community through integrated and applied learning.

Intellectual and Practical Skills Foundation: A student will acquire a foundation of intellectual and practical skills including communication, quantitative reasoning, qualitative reasoning (critical, analytical, and creative thinking), and technical and information literacies.

People of Integrity: A student will become personally and socially responsible by acquiring, developing and demonstrating skills in ethical reasoning and understanding.

Professional Competency: A student will demonstrate professional competence by meeting the established standards of the discipline, working as a valued member of a team, effectively formulating and solving problems, and actively seeking and honing lifelong learning skills.

Stewards of Place: A student will demonstrate stewardship of local, national, and global communities by cultivating awareness of: interdependence among those communities; issues within those communities; and organizations and skills that address such issues.

Knowledge Foundation: A student will demonstrate knowledge of human cultures and the physical and natural world in the following areas of essential study: arts, history, humanities, languages, science and mathematics, social sciences. Knowledge Foundation refers to GE Distribution courses and other courses and experiences within the major.

Values

As a regional state university composed of qualified professionals, we are committed to these core values:

Learning & Scholarship: UVU values preparing intellectually resilient graduates for a future of continuous and cross-disciplinary learning. We encourage students, faculty, and staff to engage in a broad array of academic, professional, and experiential learning opportunities and scholarly endeavors that foster professional and personal growth, that build real-world capabilities and result in honest, challenging and significant intellectual work.

Critical & Creative Thinking: UVU values the broad acquisition of knowledge and recognizes the value of critical and creative thinking and practical skills. We prepare students to contribute to society, adapt creatively to new challenges, and thrive in an ever-changing world community.

Academic Freedom: UVU values the free exchange of ideas and builds an academic climate conducive to such expression. We encourage thoughtful debate and civil discourse. We respect the right and responsibility of faculty and students to explore topics relevant to the educational experience.

Ethics & Integrity: UVU values ethics education and ethical behavior. We engage members of the campus and community in experiences that encourage a broader understanding of ethics across disciplines, professions, and communities. Honor and integrity, respect and civility, commitment and diligence are essential in our learning community and in interpersonal relationships.

Accountability & Openness: UVU values the opportunity to be accountable for our academic, professional, and fiscal stewardships. We welcome the responsibility to assess and examine the effectiveness and implications of our programs and initiatives. UVU embraces open dialogue and transparent decision-making.

Engaged Learning: UVU values student engagement, scholarly excellence, and creative work. We support active learning and professional development for students, faculty, and staff. We cultivate community leadership and strong relationships that extend the university into the workplace and region.

Diversity: UVU values a welcoming and diverse learning environment that embraces all people and transcends differences. Diversity enriches the intellectual and social engagement of the learning community. We support a student and workforce community that reflects the entire population.

Global Engagement: UVU is a multicultural community that values cultural literacy and actively supports learning that crosses cultural and political boundaries. We engage locally, regionally, nationally and globally in order to fulfill our mission.

Roles

As a regional state university, Utah Valley University:

Provides quality academic learning opportunities for students through programs at the certificate, associate, baccalaureate, and graduate levels. To encourage responsible citizenship, emphasis is placed on engaged teaching and learning as well as scholarly work, research, creative achievements, career and technical education and community and professional engagement.
Introduction

Provides access to higher education and offers a broad range of opportunities from developmental education through honors programs. The institution provides services designed to meet the educational and personal needs of students, to foster student success, to prepare students for meaningful lifework, and to provide access through a variety of modalities, including satellite campuses and the use of technology.

Promotes economic and cultural development to contribute to the quality of life of the region and state. The institution fosters economic development and provides a talent-force to meet the needs of a dynamic economy by offering credit and non-credit programs and services for individuals and organizations. UVU provides cultural experiences that enrich the community and offer significant and varied opportunities for continuous learning.

Historical Development

Utah Valley University was established as Central Utah Vocational School in September 1941 with the primary function of providing war production training.

Post-war training needs found the school offering programs throughout the region and at the Utah County Fairgrounds. The three school districts within Utah County combined efforts to purchase a thirteen-acre site close to Provo High School.

In 1963, the name was changed to Utah Trade Technical Institute to emphasize its growing role in technical training. The name change to Utah Technical College at Provo in 1967 was accompanied by the authority to award the Associate in Applied Science Degree. The Associate in Science Degree was added in 1972.

The initial 185-acre Orem Campus was dedicated in 1977. In 1987, the name was changed to Utah Valley Community College and the Associate in Arts degree was added by the Utah State Board of Regents.

In 1993, the name was changed to Utah Valley State College reflecting the change in mission to offer high demand baccalaureate degrees.

The Utah State Legislature approved, in February 2007, a name change to Utah Valley University that became effective July 1, 2008. The Utah State Board of Regents approved the corresponding mission change in December 2007 to give authority to offer master level degrees; this also became effective July 1, 2008.

Accreditation

Utah Valley University is accredited by the Northwest Commission on Colleges and Universities.

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution’s accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

- Northwest Commission on Colleges and Universities
  
  8060 165th Avenue N.E., Suite 100
  
  Redmond, Washington 98052-3981
  
  (425)-558-4224
  
  www.nwccu.org

In addition, some programs or majors have other specialized accreditation.

- Specialized Accreditation, Certification, and Approvals
  
  Web: www.uvu.edu/accreditation/specialized.html

Gainful Employment information is provided in compliance with the U.S. Department of Education’s disclosure requirements for programs eligible for Title IV financial aid that prepare students for gainful employment in a recognized occupation as required in 34 CFR 668.6(b). All programs list the following information: CIP Code, Level of Program, Program Length, Tuition and required fees, Estimated costs for books and supplies, Debt at program completion, Program completion in Normal Time, Job Placement, and Related Occupations. Gainful Employment Program Disclosure is listed on all marketing materials for potential students.

Graduation

Graduation

- Graduation Office
  
  Office: BA 114
  
  Telephone: 801-863-8438
Utah Valley University offers the following degrees: Master of Business Administration (MBA), Master of Education (M.Ed.), Master of Science in Nursing (MSN), Baccalaureate degrees, Associate in Applied Science (AAS), Associate in Arts (AA), Associate in Pre-Engineering (APE), Associate in Science (AS), Associate in Science in Business (ASB), Associate in Science in Nursing (ASN); Diplomas, and Certificates are also offered.

General Graduation Requirements

Students are expected to familiarize themselves with the rules and regulations of both the University and their specific majors. Detailed information concerning graduation requirements is available in this catalog as part of department descriptions. Responsibility for satisfying all graduation requirements rests upon the student. UVU reserves the right to change graduation requirements at any time.

The University confers degrees, diplomas, or certificates upon students who meet both the General Education requirements of the University and the specific requirements of one of the academic departments.

Credit Requirement

<table>
<thead>
<tr>
<th>Certificate/Degree</th>
<th>Number of Semester Credit Hours Required for Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificates of Proficiency</td>
<td>Less than 30 credit hours</td>
</tr>
<tr>
<td>Certificates of Completion</td>
<td>30–33 credit hours</td>
</tr>
<tr>
<td>Diploma</td>
<td>50 credit hours</td>
</tr>
<tr>
<td>Associate in Applied Science Degree</td>
<td>63–69 credit hours (some disciplines may require more due to specialized accreditation)</td>
</tr>
<tr>
<td>Associate in Arts or Associate in Science degree</td>
<td>60–63 credit hours</td>
</tr>
<tr>
<td>Specialized Associate’s degrees</td>
<td>68-85 credit hours</td>
</tr>
<tr>
<td>Baccalaureate degree (Bachelor of Arts, Bachelor of Science, and Professional Bachelor’s degrees)</td>
<td>120–126 credit hours, 40 of which shall be upper-division credits (level 3000 and above)</td>
</tr>
<tr>
<td>Graduate Certificate</td>
<td>9–29 credit hours</td>
</tr>
</tbody>
</table>

Please see the Graduate Studies section of the catalog regarding credit requirements for master degree programs.

Grade Point Average Requirement

A minimum cumulative grade point average (GPA) of 2.0 (C) is required for graduation. In some programs specific course grades below 2.0 will not be accepted for graduation and some programs require a higher cumulative grade point average (see individual program requirements).

Graduation Catalog Requirement

Candidates for graduation will be held to the requirements of the catalog under which they were admitted. Students have a maximum of 7 years to complete bachelor degrees and 5 years to complete associate degrees; 6 years are allowed for master degrees. In the case of bachelor degree programs, the seven year limit begins when a student is formally matriculated into the program. When students take longer than the given years to complete, they must choose from any one catalog published within the accepted period prior to their graduation. Programs that are no longer being offered may not be pursued by students who were not admitted or formally matriculated in that program during the accepted period of time. Students may not combine portions of different catalogs to fulfill graduation requirements. Once a catalog is selected, students must abide by all the graduation requirements specified within that catalog. Minors can only be sought if offered during that catalog year. Please see the Graduate Studies section of the catalog regarding catalog year requirements for master degree programs.

Global/Intercultural Requirement

The Global/Intercultural requirement is a graduation requirement at the baccalaureate degree level. Courses that may be used to complete this requirement will be coded with a GI course attribute. The purpose of the Global/Intercultural requirement is to assist students to become better prepared to understand and participate in the global and cultural interdependencies that characterize our world. Students who take courses at another university and want to use them for the Global/Intercultural requirement must petition through the GI committee. See the Graduation and Transfer Services department (BA 114) for further information. For a complete listing of the courses offered at UVU that fulfill this requirement, see the Course Descriptions section in the back of this catalog for course numbers ending in “G”.

Residence Requirement

Credit hours in residency (UVU credits) at a UVU campus, satellite, or branch campus, or through distance education or concurrent enrollment, are required for all certificates, diplomas, and degrees. Minimum hours are as follows:

1. Certificates of proficiency require 25% of total credit hours (rounded up);
2. Certificates of completion require 10 credit hours;
3. Associate degrees and diplomas require 20 credit hours;
4. Baccalaureate degrees require 30 credit hours (10 credits of those 30 shall have been completed within the last 45 credit hours earned for the degree).

Multiple Degrees

Students may earn multiple certificates. Students may earn only one academic associate degree from Utah Valley University; either an Associate in Science or an Associate in Arts. With some exceptions, students may earn multiple Associate in Applied Science (AAS) degrees, specialized associate degrees, and baccalaureate degrees.

A second bachelor’s degree may be awarded when all requirements for both degrees are satisfied, along with the following:
Introduction

1. All UVU General Education requirements are satisfied;
2. Thirty semester hours beyond the original degree are completed;
3. Twenty semester hours of the 30 hours in item 2 above must be completed at UVU (resident hours);

Dual Baccalaureate Majors (One Degree--with Two majors)

A baccalaureate degree with dual majors may be awarded when students complete all requirements for two approved degrees from the approved dual majors list, but has not met the required 30 semester hours for a second degree beyond the original degree. The student shall receive a single baccalaureate degree; the diploma and transcript shall list both majors.

Other information regarding the dual major:
1. Students apply for graduation for one degree, and only one degree type, such as a Bachelor of Arts, or a Bachelor of Science;
2. In order to be awarded a dual major, both majors must be completed during the semester when (or prior to) applying for graduation;
3. If Students have already graduated in one of the majors, they may not apply for a dual major;
4. After being awarded a dual major degree, students may not apply for graduation for one of the dual majors separately.
5. Students shall have no more than three course substitutions from the required courses for the two majors combined.
6. Students may not receive minors in either major, but may be awarded a minor from another area if all requirements are met.
7. Credits shall not exceed the 160 credit hour limit with the two combined majors.

Degree Requirements

Master Degrees

Please see the Graduate Studies section of the catalog regarding degree requirements.

Bachelor of Arts/Science Degrees

Graduation requirements for the Bachelor of Arts/Science Degrees are:

- Completion of a minimum of 120 semester credits, or more if specified by program requirements;
- Overall grade point average of 2.0 (C) or above. Departments may require a higher GPA;
- Residency hours - minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours;
- At least 40 credit hours in upper division courses;
- Completion of General Education requirements. See General Education section above for specific courses required for graduation;
- Completion of specific departmental (major) requirements;
- Completion of Global/Intercultural Requirement course.

For a Bachelor of Arts Degree in programs offering the degree, students must complete 16 credit hours of course work from one language to include the 1010, 1020, 2010 and 202G levels, or transferred equivalents. Some ESL course work may be used to fulfill this requirement. See the ESL department for specific details.

Note: Academic departments may require specific General Education courses in addition to major requirements.

Multiple Emphases

Students may earn additional emphases, with departmental approval under a specific bachelor’s degree by completing the requirements for those emphases. Additional emphases shall appear on transcripts, but no additional diplomas will be awarded.

Associate in Arts/Science Degrees*

Graduation requirements for the Associate in Arts/Science Degrees are:

- Completion of a minimum of 60 or more semester credits;
- Overall grade point average of 2.0 (C) or above. Departments may require higher GPA;
- Residency hours - minimum of 20 credit hours earned through course attendance at UVU;
- Completion of General Education requirements. See General Education section for specific courses required for graduation;
- Completion of specific department (major) requirements.

Note: Academic departments may require specific General Education courses in addition to major requirements.

*The Associate in Arts Degree differs from the Associate in Science Degree in that a minimum of 8 credits must be earned in the same Foreign Language.

Language Proficiency

A second language is required to obtain the Associate in Arts Degree. This language must be different from the student’s native language. Language proficiency may be demonstrated by any one of the following methods:

- Eight credits of the same language taken at UVU or transferred from another college; or
- Application of foreign language challenge credit as described in the Foreign Language Challenge Procedures (available from the Languages Department Chair);
- Language credit does not apply to the General Education Humanities Distribution area (except for any 202G course) but will apply as elective credit in the Associate in Arts/Science Degree and as Humanities credit for the Associate in Applied Science Degree.

Associate in Applied Science Degrees
Graduation requirements for the Associate in Applied Science Degrees are:

- Completion of a minimum of 63 semester credits;
- Overall grade point average of 2.0 (C) or above;
- Residency hours - minimum of 20 credit hours earned through course attendance at UVU;
- Completion of department General Education requirements;
- Completion of specific department major requirements.

Diplomas

Diplomas require a minimum of 50 credits in a specialty area. Some programs offering Associate in Applied Science Degrees also offer diplomas. Not all departments offer diplomas. See specific department program listings for details.

Certificates of Completion

Certificates of Completion require a minimum of 30 credit hours. Not all departments offer a Certificate of Completion. See specific department program listings for details.

Certificates of Proficiency

Certificates of Proficiency vary in credit hours from 3-29 credit hours. Not all departments offer a Certificate of Proficiency. See Specific department program listings for details.

General Graduation Information

Application for Graduation

Graduation is not automatic. Prospective graduates must complete the online Graduation Application via Wolverine Track in UVLink. Applicants may also be required to fill out additional forms/surveys. The application must be completed by the Application deadline as listed below:

Application Deadlines

- Fall semester: First Friday in October
- Spring semester: First Friday in February
- Summer semester: First Friday in June

Graduation applications are processed each semester. Diplomas are mailed to graduates after final grades are reviewed and graduation requirements are verified as completed for all students at the end of the semester. Students failing to complete graduation requirements by the following dates for which they have applied must reapply for graduation.

REQUIREMENT DEADLINES

- Fall semester: January 15th
- Spring semester: May 31st
- Summer semester: September 15th

Requirements may include, but are not limited to: all current semester grades, all “I” (Incomplete) and “M” (Missing) grades, grade changes, challenge and experiential credit, AP (Advanced Placement) credits, CLEP (College Level Examination Program) and DSST (DANTES Subject Standardized Tests) credit, transferred credit, required testing and departmental exceptions. All of these items MUST be completed and submitted by the above deadlines. Failure to comply will cause the student to have their graduation declined for that semester. Students will then have to apply for another graduation semester.

Commencement

Commencement exercises are held once each year at the end of spring semester. Students who have completed their graduation requirements during the summer, fall, or spring of that academic year are invited to participate. Attendance is strongly encouraged, but not mandatory.

Financial Holds

Candidates for graduation who owe money to UVU will not receive their diplomas until all debts are paid.

Graduation with Distinction

Honors at graduation are available to students who meet the following minimum cumulative grade point averages: (Honors designations are computed on hours completed; 20 hours minimum for associate degrees; 30 hours minimum for bachelor degrees.) These Distinctions are awarded and based only upon GPA and are not related to participation in the UVU Honors Program.

- **Associate in Arts/Associate in Science**
  - Honors GPA 3.60
  - High Honors GPA 3.80

- **Bachelor Degrees**
  - Cum Laude GPA 3.60
  - Magna Cum Laude GPA 3.80
  - Summa Cum Laude GPA 3.90

**Note:** Please contact the Honors Program (LC 204) for information about the UVU Honors Program.

Valedictorians
Introduction

Each of the Colleges and Schools of the University will select a valedictorian from a list supplied by the Graduation Office of candidates graduating with honors during the academic year. The status of valedictorian is determined by each school and college, based on competitive criteria. Please check your school or college for requirements and details.

Registration, Tuition & Fees

REGISTRATION

- **Registration Office**
  - Office: BA 106 (One Stop)
  - Telephone: 801-863-8468

**Registration Procedures**

A schedule of classes is published online every semester in advance of each registration period, indicating courses offered, times, instructors, and room assignments. Registration procedures are available online at www.uvu.edu.

**Special Notice to Students**

It is the responsibility of the student to verify registration accuracy and completeness.

**University Advanced Standing Requirement**

Before students can register for upper-division coursework (3000 or higher), they must qualify for University Advanced Standing (UAS) by:

- Completing, and/or transferring in, at least 24 credits of college-level coursework (1000 or higher);
- Having a cumulative GPA of 2.0 or higher;
- Complete MAT 1010 or higher and ENGL 1010 or higher.

Academic departments may also establish additional advanced standing requirements that must be met before students will be allowed to enroll in upper-division courses within their disciplines.

**Change of Registration (Add/Drops)**

After initial registration, students may modify their schedules by adding, dropping, or changing to audit. The Semester Student Timetable specifies the time period when changes may be made.

If a class is full and has a Wait List option, students may add themselves to the Wait List. A Wait List is an electronic list of students who want to enroll in a course that has reached maximum capacity (closed). Wait List is first come, first serve according to the date and time the student selects the Wait List option.

Beginning the first day of the semester students may add open classes without a fee or approval. After the deadline noted on the Semester Student Timetable students wishing to add a class must obtain instructor and department approval and pay the corresponding fee. Students may not attend classes for which they are not officially enrolled.

After obtaining the instructor and department approvals, the student may add the class(es) and then pay appropriate tuition/fees.

Students may drop and withdraw from classes according to the dates and deadlines posted on the Semester Student Timetable. Classes may be dropped and not appear on the transcript through the drop deadline. After the last day to drop noted on the Semester Student Timetable, a grade of "W" will appear on the transcript for all official withdrawals and students will be responsible for tuition and fees. Withdrawing from a course after the last day to withdraw deadline may only be for extenuating circumstances and not solely for academic difficulty, and requires the signature of the department chair with a department approval stamp. Such changes to a student's schedule may adversely affect current and future financial aid, scholarships and/or refunds. Students are cautioned to see a financial aid advisor before attempting to completely withdraw from school.

Students who add classes must pay appropriate tuition/fees, for any additional credit, by the published dates on the Semester Student Timetable.

**Administrative Drops and Withdrawals**

Students may be dropped or withdrawn from classes by the administration if they: 1. Register, but do not attend equipment or lab-related courses within the first three days of a semester; 2. Register for courses for which they have not completed prerequisites; 3. Neglect to pay tuition and fees for any given semester/term by the deadline published in the Student Timetable; or 4. Other administrative reasons. Such changes to a student's schedule could affect financial aid, scholarships, and/or refunds.

**Auditing**

Students may choose to register for classes on an audit basis (register for classes as a “listener” without receiving credit). Tuition, registration times and add/drop criteria are the same as for regular class registration. For an audit, the student must complete and sign an “audit form” at One Stop. Audits may only be requested through the audit deadline specified on the Semester Student Timetable. Students may not change from audit to credit status.

Classes appear as “AU” (audit) on the official transcript. Since they are noncredit, they do not count in the credit load for foreign students, veterans, students receiving financial aid, etc.; nor do they fill graduation requirements.

Students may not challenge courses that they have audited. An incomplete grade may not be made up by repeating the class for audit.
Noncredit Continuing Education Unit (CEU)

The Division of Continuing Education offers a variety of courses and programs for life-long learning. Many of these programs are offered under a noncredit option. The Continuing Education Unit (CEU) is a means for measuring and recording noncredit study.

Student Rights and Responsibilities

Student Rights and Responsibilities

Purpose of this Policy

The purpose of the enactment of a student rights and responsibilities code is to set forth in a clear and concise manner the rules and regulations of conduct expected of those who join the institution's community. Students, faculty, staff and administration should always exercise their freedom with personal responsibility. This code will outline due process for handling alleged student violations of institutional policies, including, but not limited to the responsibilities set forth in this policy. Further, the purpose of this policy is to delineate the range of sanctions for such violations, and establish procedures for appeal of disciplinary sanctions.

The institution expects all students to obey the law, to show respect for properly constituted authority, to perform contracted obligations, to maintain absolute integrity and high standards of individual honesty in academic work, and to observe a high standard of conduct within the academic environment. In short, a student enrolled in the institution accepts the obligation to conduct themselves in an appropriate manner acceptable at an institution of higher learning.

Policy

Members of the student body should exercise their freedoms with personal responsibility. Should violations of the Student Rights and Responsibilities Code occur, sanctions may be enforced for the protection of the institution and its members.

Behavior which violates the Student Rights and Responsibilities Code should be reported to the office of Student Conduct 801-863-8665 (non-emergency) or Campus Police 801-863-5555 (emergency).

A. General Rights

1. A student, while properly enrolled at the institution, will have the right to the following institutional services, treatment and information:
   a. Free and open discussion, inquiry and expression, subject to constitutional limitations regarding time, place and manner.
   b. Protection against the institution's improper disclosure of a student's records, work, views, beliefs and political associations.
   c. Procedural safeguard and personal privacy with respect to testing for drugs and infectious diseases (e.g., AIDS).
   d. Timely and understandable information and respectful treatment regarding policies, refunds, lab and course fees, library fines, lab breakages, liability, etc.
   e. Freedom from a discriminatory and offensive environment that may cause emotional stress or a hostile or offensive campus environment directed toward another person.
   f. Freedom from sexual harassment.
   g. Full protection under the Constitution for freedom of the press, including constitutional limitations on prior restraint and censorship.
   h. Due process of law recognized as being essential to the proper enforcement of institution rules.
   i. Security for his/her person, papers and personal effects against unreasonable searches and seizures.
   j. Access to the institution's Ombudsman for consultation in matters of personal and school issues and concerns.
   k. Student representation through student government on institutional committees, councils, commissions and other formally constituted bodies that make general policy and procedure decisions directly affecting students or that govern student activities and conduct.
   l. Access to all student government sponsored activities.
   m. Accurate information in advertising, recruitment, and orientation efforts.

B. Academic Rights

1. A student will have the following rights in academic affairs, services and information when properly enrolled as a student at the institution:
   a. Performance evaluation based on a written syllabus.
   b. Appropriate and open discussion, inquiry and expression, both in the classroom and in student/instructor conferences.
   c. Freedom to take exception to the views presented in a classroom setting and to reserve judgment in matters of opinion.
   d. Professional and ethical conduct from all institutional personnel.
   e. Competent and professional instruction.
   f. Competent academic advisement.
   g. Protection against improper disclosure of a student's records, academic work, views, beliefs and political associations.
   h. Information prior to registering regarding the costs of tuition, activity fees, lab fees, etc.
   i. Scheduled access to and the use of institutional services, facilities and programs.
   j. Accurate information regarding course offerings, programs, majors, transfer policy, and institutional requirements and expectations.
   k. Accurate information regarding changes in course programs or institutional requirements and reasonable accommodation of those already enrolled in a program or classes.
   l. The right to receive academic credit and/or academic degrees when all specified requirements and coursework have been satisfied.
   m. The right to appeal to the Academic Standards Committee regarding grade changes, withdrawals, etc.

C. General Responsibilities
Introduction

1. A student assumes the responsibility to conduct himself/herself in an appropriate manner. Categories of misconduct that are not considered responsible behavior include, but are not limited to, the following:
   a. Failure to respect the right of every person to be secure from fear, threats, intimidation, harassment, hazing and/or physical harm caused by the activities of groups or individuals.
   b. Sexual assault, harassment, or any other unwelcome verbal or physical sexual activity, including the support or assistance of such activities.
   c. Unauthorized seizure or occupation of any institutional building or facility.
   d. Obstruction, disruption or interference with teaching, disciplinary proceedings, institution-sponsored activities and services or events.
   e. Use or possession of any weapon, explosive device, or fireworks on a person or storage of such on institutional property without prior written approval from the Chief of Campus Police.
   f. Unlawful use, possession, distribution, sale, manufacture, or possession for purposes of distribution or sale of any controlled substance or illegal drug on any property or in any building owned, leased or rented by the institution or at any activity sponsored by the institution.
   g. Initiation or circulation of any false report, warning or threat of fire, bombs or explosives on institutional premises or during institution-sponsored events.
   h. Violation of the Utah Indoor Clean Air Act and/or the institution smoking policy (institution Policy 158 Tobacco).
   i. Sale, possession, manufacture, distribution or consumption of alcoholic beverages on institution properties.
   j. Unauthorized possession, forging, altering, misusing or mutilating of institutional documents, records, educational materials, identification, (e.g., personal ID, parking decal, etc.) or other institution property.
   k. Violation of city ordinances and/or state statutes regarding gambling.
   l. Delivery of false information to institutional personnel.
   m. Theft or malicious destruction, damage or misuse of institution property or private property of another person on the institution campus or when engaged in activities sponsored or supervised by the institution off campus.
   n. Intentional or reckless destroying, defacing, vandalizing, damaging or misusing the property, equipment, materials, services or data of the institution.
   o. Unauthorized possession or use of a key to any institution facility or equipment.
   p. Obscenity and lewd conduct as defined by institution policy, city ordinances, and/or state statutes.
   q. Failure to adhere to all laws and regulations governing the duplication and use of copyrighted materials including, but not limited to, printed and audio materials, video, film, and/or computer software.
   r. Unauthorized use or charges to any institution telephone for long distance calls. Institution telephones are for business use only.
   s. Unauthorized off-campus fund raising activities on behalf of the institution. All fund raising must have prior written approval from the institution’s Development Office.
   t. Intent to defraud the institution in any financial matter including, but not limited to:
      u. Failure to conduct oneself in a way that does not endanger the health and well-being of other student and institution personnel.
      v. Unauthorized commercial ventures or enterprises on institution property.
      w. Bringing animals on campus, except for those serving the disabled or those used for educational purposes.
      x. Allowing children in institution classrooms or laboratories (unless they are an integral part of instruction) or leaving children unattended in hallways and restrooms or at institution-sponsored events and functions.
   y. Students are encouraged to report violations of this policy to an appropriate institutional office.
      a. non-redemption of personal checks refused by a bank;
      b. sale/resale of supplies, books, or equipment in violation of institution agreements;
      c. falsifying institution financial records; and/or
      d. non-payment of tuition and fees as set forth by institution regulations.

D. Academic Responsibilities

1. Each student is expected to take an active role in the learning process by meeting course requirements as specified in written syllabi.
2. Each student is expected to display appropriate conduct in classroom situations, that will enhance the learning environment.
3. Faculty members have the right to establish classroom standards of behavior and attendance requirements. Students will be expected to meet these requirements and make contact with faculty members when unable to do so.
4. Each student is expected to maintain academic ethics and honesty in all its forms, including, but not limited to, cheating and plagiarism as defined hereafter:
   a. Cheating is the act of using or attempting to use or providing others with unauthorized information, materials or study aids in academic work. Cheating includes, but is not limited to, passing examination answers to or taking examinations for someone else, or preparing or copying other’s academic work.
   b. Plagiarism is the act of appropriating another person’s or group’s ideas or work (written, computerized, artistic, etc.) or portions thereof and passing them off as the product of one’s own work in any academic exercise or activity.
   c. Fabrication is the use of invented information or the falsification of research or other findings. Examples include but are not limited to:
      1. Citation of information not taken from the source indicated. This may include the incorrect documentation of secondary source materials.
      2. Listing sources in a bibliography not used in the academic exercise.
      3. Submission in a paper, thesis, lab report or other academic exercise of falsified, invented, or fictitious data or evidence, or deliberate and knowing concealment or distortion of the true nature, origin, or function of such data or evidence.
      4. Submitting as your own any academic exercise, (e.g., written work, printing, sculpture, etc.) prepared totally or in part by another.

E. Expectations

1. The institution expects all students to maintain integrity and high standards of individual honesty in academic work, to obey the law, and to show respect for others.

F. Where Policy Applies

1. The Student Rights and Responsibilities Code applies to conduct that is in violation of institution Policy 541, The Student Rights and Responsibilities Code that occurs on institutional premises and at institution-sponsored activities. It also applies to off-campus conduct that adversely affects the campus community and/or the pursuit of its objectives. The Student Rights and Responsibilities Code applies to a student’s conduct even if the student withdraws from the institution while a disciplinary matter is pending. The Director of Judicial Affairs shall decide whether the Student Rights and Responsibilities Code shall be applied to conduct occurring off-campus, on a case-by-case basis.

G. Informal Resolution

1. Informal resolution of differences or appeals shall be encouraged.
H. Academic Infractions (Grades)

1. Responsibility for and authority over Academic Infractions, and other academic appeals, including Grade Appeals, shall reside with the Dean of the academic area in which an issue may arise.

I. General Infractions

1. Responsibility for and authority over General Infractions shall reside with the Dean of Students.

J. Composition of Campus Appeals Board

1. The Campus Appeals Board shall consist of two faculty members from each academic area appointed by the Faculty Senate in consultation with the respective academic Deans, three staff members appointed by PACE, with approval of the staff members’ supervisors, and three students appointed by the Student Body President. Appointments of faculty and staff shall be for three-year rotating terms. Three student members shall be appointed to a one-year term. The Director of Judicial Affairs shall obtain names from the appointing entities annually prior to May 1, and shall send a letter of appointment to those appointed. The Director of Judicial Affairs shall organize the initial term lengths for the rotating members of the Board to allow an orderly rotation. The Director of Judicial Affairs shall chair the Board in a non-voting capacity.

K. Responsibilities of Board

1. The Campus Appeals Board shall be trained by the Office of Judicial Affairs in due process and other Student Rights and Responsibilities Code matters. A subset of the Board shall hear appeals, as necessary. In hearing appeals, the Board shall be concerned primarily with due process and fairness, recognizing that they do not have the full awareness of professional competence and context, in general. In addition to hearing appeals, the Board shall have the responsibility to train faculty and staff in the Student Rights and Responsibilities Code’s (institution Policy 541, Student Rights and Responsibilities Code) expectations, procedures, and due process.

L. Confidentiality

1. Confidentiality shall be maintained for all parties to Student Rights and Responsibilities Code actions, except as necessary to provide due process. If the Campus Appeals Board finds a complaint to be without merit, records of the complaint and proceedings shall be destroyed.

M. Sanctions

1. Sanctions must be applied in a fair an impartial manner. Sanctions are assigned in accordance with two criteria: (1) Educational value for the student found in violation of institution Policy 541, the Student Rights and Responsibilities Code, (2) Commensurability of the violation and the assigned sanction.

2. Academic sanctions that may be imposed include:
   a. Warning
   b. Requiring a student to retake an exam(s)
   c. Requiring a student to re-write a paper(s) and/or repeat an assignment(s)
   d. A grade reduction
   e. A failing grade
   f. Probation with specified conditions
   g. Suspension from the Department, School, or Institution (must be reviewed and confirmed by Vice President of Academic Affairs and President)
   h. Expulsion from the Department, School, or Institution (must be reviewed and confirmed by the Vice President of Academic Affairs and President)
   i. Revocation of admission or degree (for fraud, misrepresentation, or other serious violations of institution standards in obtaining the degree; must be reviewed and confirmed by the Vice President of Academic Affairs and President)
   j. Withholding degree until completion of process and other sanctions relating to a violation of the Student Rights and Responsibilities Code

3. Sanctions that may be imposed for General infractions include:
   a. Warning
   b. Probation with specific conditions
   c. Loss of privileges
   d. Fine
   e. Restitution
   f. Discretionary Sanctions such as work assignments, personal development assignments, essays, or service assignments
   g. Suspension from the Department, School, or Institution (must be reviewed and confirmed by Vice President of Student Affairs and President)
   h. Expulsion from the Department, School, or Institution (must be reviewed and confirmed by the Vice President of Student Affairs and President)
   i. Revocation of admission or degree (for fraud, misrepresentation, or other serious violations of institution standards in obtaining the degree; must be reviewed and confirmed by the Vice President of Student Affairs and President)
   j. Withholding degree until completion of process and other sanctions relating to a violation of the Student Rights and Responsibilities Code
   k. Organizational sanctions, including loss of selected rights and privileges, up to and including deactivation, from the offending organization for a specific period of time

4. Interim suspension:
   a. In urgent circumstances, interim suspension may be imposed as outlined below:
      1. A classroom instructor, Department Chair, or Dean may ask Campus Police to remove a student immediately from the classroom or other academic area.
      2. If a student is removed, an immediate report must be made to the Director of Judicial Affairs by the instructor, Chair, or Dean who instigated the removal.
      3. The Director of Judicial Affairs may impose institutional suspension prior to the completion of appeals and final imposition of sanctions.
      4. Interim suspension may be imposed only:
         a. to ensure the safety and well-being of members of the Campus Community or preservation of institutional property; or
         b. to ensure the student’s own physical or emotional safety and well-being; or
         c. if the student poses an ongoing threat of disruption of, or interference with, the normal operations of the institution.
         d. During the interim suspension, a student shall be denied access to the campus, including classes, and all other institutional activities or privileges for which the student might otherwise be eligible, as the Director of Judicial Affairs or the Dean of Students may determine to be appropriate.
         e. The interim suspension does not replace the regular due process, which shall proceed on the normal schedule.
         f. The student shall be notified in writing of this action and the reasons for the suspension. The notice should include the time, date, and place of a subsequent hearing at which the student may show cause why his or her continued presence on campus does not fall within the reasons above (and which they may contest whether a campus rule was violated).
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N. Multiple Offenses, Pattern of Behavior

1. If a student is found guilty of the reported infractions and sanctions in his/her disciplinary record, then the Director of Judicial Affairs shall report the particulars of the student's disciplinary record to the Campus Appeals Board for review of the larger pattern of misbehavior. If a larger pattern of misconduct should appear, additional disciplinary measures may be imposed by the Campus Appeals Board.

O. No Reprisals

1. No reprisals shall be taken by or against any party or legitimate participant in the appeal process by reason of such participation. However, individuals furnishing false information and/or documentation at any point in the formal process described in this policy are subject to disciplinary action.

P. Disciplinary Records

1. Records of disciplinary actions shall not be made a part of the student's academic record except through the appearance in the academic record of grade reductions or failing grades, but shall become part of the student's disciplinary record. The disciplinary record shall be reviewed and expunged. In situations involving both an accused student(s) (or group or organization) and a student(s) claiming to be the victim of another student's conduct, the records of the process and of the sanctions imposed, if any, shall be provided to the disciplinary/educational records of both the accused student(s) and the student(s) claiming to be the victim because the educational career and chances of success in the academic community of each may be impacted.

Q. Concurrent Jurisdiction

1. In cases of overlapping or concurrent jurisdiction, the Dean of Students and the relevant Academic Dean shall negotiate to agree on the locus of primary jurisdiction. The Dean of primary jurisdiction shall then control the process and communicate outcomes to the other Dean.

R. Student Rights & Responsibilities

1. Student Rights and Responsibilities are delineated in institution Policy 541, Student Rights and Responsibilities Code. Students are also subject to other institutional policies. Alleged violations of institutional policies by students shall be handled according to the procedures set forth below.

S. Appeals Process, Determination & Application of Sanctions

1. Academic Infraction Due Process Procedures
   a. Instructors shall discuss allegations of misconduct with the accused student in a confidential environment.
   b. Sanctions associated with Academic Infractions shall be reported by the instructor to the student, within ten (10) business days of the imposition of the sanction by the instructor. Except in cases where there is a significant threat of disruption or of undermining of the academic integrity of the course, instructors shall refrain from implementing irreversible sanctions (e.g. denying access to class or a final exam) until the student has exhausted all appeals.
   c. Before an appeal, the student must attempt to resolve the issue informally with the instructor.
   d. In case of an appeal, documentary evidence shall be deposited by the instructor and/or the student with the Office of Judicial Affairs. Said office shall maintain original documents in a secure location and shall make copies available to the parties and the hearing officer for the appeal. Whether or not there is documentary evidence to deposit, the instructor shall file a copy of allegations with the Office of Judicial Affairs. Said copy shall be clearly labeled "under appeal" and shall not become a part of the student’s disciplinary record until appeals are exhausted.
   e. Sanctions may be modified at any point in the appeals process if evidence warrants.
   f. If the student chooses to appeal the instructor’s decision, the appeal must be made in writing to the Department Chair within ten (10) business days of the instructor’s final decision.
   g. The Chair will render a decision in writing to the student and the instructor within ten (10) business days of receiving the student’s written appeal.
   h. If either the student or the instructor chooses to appeal the Chair’s decision, the appeal shall be made in writing to the campus Appeals Board within ten (10) business days of the Chair’s decision, or if the student and instructor agree, the appeal may be made directly to the Dean rather than the Board.
   i. The hearing body, whether it is the Board or the Dean, shall render a decision in writing to the student and the instructor, with a copy to the Chair, within ten (10) days of receiving the written appeal.
   j. If either the student of the instructor chooses to appeal a decision of the Board, the appeal shall be made in writing to the Dean within ten (10) business days of the Board’s decision. The Dean shall be responsible for determining remediation and sanctions after a finding by the Board that Academic Misbehavior occurred.
   k. The Dean shall render a decision in writing to the student and the instructor, with a copy to the Chair, and to the Board if they heard the previous appeal, within ten (10) business days of receiving the written appeal.
   l. The decision of the Dean as to findings of Academic Infraction(s), remediation, and sanctions shall be final except for review of proposed suspension by the Vice President of Academic Affairs (VPAA) and of proposed expulsion, revocation of admission or degree by the VPAA and President.
   m. Final decisions in which allegations of Academic Infraction(s) have been sustained shall be reported by the final deciding body (or by the instructor in case there are no appeals) to the Office of Judicial Affairs, with copies to the student or other parties to the appeal, within ten (10) business days of the decision.

2. General Infraction Due Process Procedures
   a. All allegations of General infractions will be reported to the Office of Judicial Affairs within ten (10) business days of sufficient information being gathered. Discussions of allegations with the students involved shall take place in a confidential environment. Documentary evidence shall be deposited by the accuser and/or the student with the Office of Judicial Affairs. Said Office shall maintain original documents in a secure location and shall make copies available to the parties and the hearing officer for the appeal. The allegations shall not become a part of the student’s disciplinary record until appeals are exhausted.
   b. The Office of Judicial Affairs will notify the student within five (5) business days after receiving a report of violation and schedule a hearing with the Director of Judicial Affairs.
   c. The Director of Judicial Affairs will determine the merit of the complaint and assign sanctions if the complaint is found to be meritorious and to warrant sanctions. The Director of Judicial Affairs shall notify the student in writing of his or her finding and of any sanctions within ten (10) business days of the hearing. Except in cases of urgent circumstances, the Director of Judicial Affairs shall refrain from implementing irreversible sanctions until the student has had the opportunity to fully pursue the appeals process.
   d. Sanctions may be modified at any point in the appeals process if evidence warrants.
   e. If the student chooses to appeal the decision of the Director of Judicial Affairs, the appeal shall be made in writing to the Campus Appeals Board within ten (10) business days of the Director’s decision. The student may choose to appeal directly to the Dean of Students rather than the Board.
   f. The hearing body, i.e. the Board or the Dean of Students, shall render a decision in writing to the student and the Director of Judicial Affairs within ten (10) business days of receiving the written appeal.
g. If the student chooses to appeal the decision of the Board, the appeal shall be made in writing to the Dean of Students within ten (10) business days of the Board’s decision. The Dean of Students shall be responsible for determining remediation and sanctions after a finding by the Board that a general infraction was committed.

h. The Dean of Students shall render a decision in writing to the student and the Director of Judicial Affair, with a copy to the Board if they heard the previous appeal, within ten (10) business days of receiving the written notice.

i. The decision of the Dean of Students as to findings of General Infractions, remediation, and sanctions shall be final except for review of proposed suspension by the Vice President of Student Affairs (VPSA) and of proposed expulsion, or revocation of admission or degree by the VPSA and President.

j. Final decisions in which allegations of General Infractions have been sustained shall be reported by the final deciding body to the Office of Judicial Affairs, with copies to the student and other parties to the appeal, within ten (10) business days of the decision.

3. Withdrawal of Appeals-An appeal may be withdrawn by the appellant at any time without prejudice.

T. Campus Appeals Board Hearings

1. The Campus Appeals Board Chair shall convene a subcommittee from its members. The subcommittee of the Board shall consist of two members from the School of Division referring the appeal, a third member from another unit of the institution, two students, and a staff member to hear any appeal.

U. Disciplinary Records

1. The Office of Judicial Affairs shall be responsible for facilitating written appeals and for keeping records of all decisions under this code, whether general or academic.

2. When a sanction has been imposed and made final after any appeals process, a report shall be submitted to the Office of Judicial Affairs by the final deciding instructor, officer, or Board.

   a. Disciplinary records shall be kept confidential, and access, as necessary for carrying out their duties, shall be limited to Deans and institutional line officers above the Deans, the Office of Judicial Affairs, and members of the Campus Appeals Board. Nevertheless, students may give written consent to faculty members or other institutional employees to view their disciplinary records. A student requesting a recommendation that asks about disciplinary actions shall be presumed to give implied consent to the recommender to see the disciplinary record.

   b. When the student’s disciplinary record shows multiple similar infractions or a pattern of improper behavior, the Director of Judicial Affairs shall report the case to the Campus Appeals Board for further review. The Board shall hold a hearing with the student and determine further sanctions, if necessary and appropriate.

   c. Determinations of when records are to be expunged or reports removed are to be made only by the Office of Judicial Affairs in order to maintain a single institutional standard for retention of records of Student Conduct Code actions.

   d. Factors relevant to the decision to retain or delete specific records include:

      1. How much time has elapsed since the infraction (generally, at least five (5) years).
      2. Whether the student has graduated.
      3. The seriousness of the infraction and the resulting sanctions - institutional suspension, expulsion, and revocation of admission or degree shall be considered for expunging only upon application by the student to the Director of Judicial Affairs and then only with the concurrence of the relevant Dean, Vice President, and the President.

   e. Students shall apply to the Director of Judicial Affairs to have their disciplinary records expunged. If the student applying for expungement has graduated, or if the disciplinary records are at least five (5) years old, they shall be expunged unless the Director of Judicial Affairs finds circumstances requiring retention of the records, except in the cases of suspension, expulsion, or revocation or withholding of a degree require further review.
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be denied the benefits of services, programs, or activities of UVU. In addition, individuals with disabilities will not be subjected to discrimination by the University or its personnel. Services are available to students who have documentation substantiating various conditions (including a physical, psychological, or learning disability) and may include: sign language interpreting, testing accommodations, text in audio format, note taking, adaptive equipment, Brailing, and other individualized services. The office also houses the ADA Coordinator; the individual charged with determining eligibility and arranging accommodations for qualified employees.

The Accessibility Services Department serves Utah Valley University students and the community by providing access to the campus and curriculum for individuals with disabilities to facilitate, support, and encourage their academic success, their retention and ensure their academic rights. Services are available to students who have documentation substantiating various conditions (including a physical, psychological, or learning disability) and may include: sign language interpreting, testing accommodations, text in audio format, note taking, adaptive equipment, transfer of printed material to Braille, and other individualized services.

Alumni Association

- Office: AL 003
- Telephone: 801-863-8179

The purpose of the UVU Alumni Association is to create lasting relationships between students, alumni and friends of the University for the advancement of the University.

The UVU Alumni Association provides benefits and support for over 200,000 UVU alumni, and is responsible for many services, like publishing UVU Magazine, providing benefits programs, Alumni Awards, Founder’s Day, the Family Fun Fair, Homecoming and other similar offerings. In addition, the Alumni Association maintains its home page at uvualumni.org, where both students and alumni can access various services of the association through the online community.

The UVU Alumni Association also sponsors the Student Alumni Association, which is involved in hosting important events and activities on campus, and at regional and national conferences. In addition, they are involved in service projects and annual student giving campaigns. Membership in the Student Alumni Association is open to all students, and applications for the Student Alumni Board are accepted during spring semester. For more information about this and other Alumni related topics, call 801-863-8179.

Bookstore

- Located: SC 102
- Telephone: 801-863-8641
- Hours:
  - Monday - Thursday 7:30 a.m. - 6 p.m.
  - Friday 7:30 a.m. - 5 p.m.
  - Saturday 9 a.m. - 1 p.m.
  - (fall and spring semesters only)
  - Monday, Friday 8 a.m. - 5 p.m.
  - Tuesday - Thursday 8 a.m. - 6 p.m.
  - (summer semester only)
  - Closed Sunday and Campus Holidays

The bookstore is open each weekday to serve the students, faculty and staff of UVU. At the bookstore you will not only find your required text books for rent, purchase or e-book, but also everything else you will need for your college career: school supplies, computers, i-Pads, iPods, academically-priced software, general reading material, reference books, candy and sundry items, and UVU apparel, insignia items, gift cards.

Campus Connection

- Located: SC 106f
- Telephone: 801-863-8797
- Hours:
  - Monday - Thursday 8 a.m. - 8 p.m.
  - Friday 8 a.m. - 5 p.m.
  - Saturday 9 a.m. - 2 p.m.
  - Holiday hours may vary

Campus Connection is the place to go to get your UV OneCard/UV Plus Card (Student ID) and information on all student activities sponsored by or held at the Utah Valley University Campus along with the following services:

UV OneCard/UV PlusCard

The card will allow discounted access to most student activities and athletic events. The card allows free access to library book checkout, PE Issue Room, and athletic facilities. It also offers discounted entrance into selected community events, activities, and dances. Student fees entitle each student to one UV OneCard for the duration of his/her enrollment at UVU (minimum of 5 years). Students should save their cards even if they skip a semester or a year or two, because the card is automatically validated when registration is paid. Replacement cards (lost, stolen, broken or name changes) are $15.

UV PlusCard is everything the UV OneCard is PLUS it becomes your UCCU Debit Card all in one. Just go to uvu.edu/campusconnection to learn more.

The UV GreenBucks Account is a debit account made available for students to deposit funds at Campus Connection or online at onecard.uvu.edu (VISA, MasterCard, and Discover cards are accepted to put money on the UV OneCard). With these funds on their card, students can make purchases on campus for food, books, postal services, and special
event tickets. When the UV GreenBucks is used in Dining Services, students receive a 5% discount. There is also a meal plan available that gives 10% off on all meals from Dining Services for $300. For more details, call Campus Connection 801-863-8797 or go to SC 106f.

UTA Bus Pass

Students are also eligible to receive a UTA Bus Pass for a fee. (Price may vary due to UTA rate increase.) You must be registered for at least one (1) credit class and provide your current UV OneCard/UV PlusCard to Campus Connection in order to obtain a UTA bus pass. Replacements will be charged the same activation fee.

Other Services

Tickets and SmithsTix for various Campus and community events; UTA Bus Passes; Faxing domestic and international; campus lost and found; general information. See uvu.edu/campusconnection for more up to date information.

US Post Office

- Located: SC 104
- Telephone: 801-863-6067
- Hours:
  - Monday - Thursday 8 a.m. - 8 p.m.
  - Friday 8 a.m. - 5 p.m.
  - Saturday 9 a.m. - 2 p.m.
- Mail pick-up:
  - Monday - Friday 2:45 p.m.
  - Saturday 12:45 p.m.

The US Postal Service is also available across the hall from Campus Connection. Stamps (singles, books, and rolls), Packaging Products, Express, Priority, Media-Mail, Bound Printed Matter, Global Priority, Global Express, Global Air Mail, Registered, Certified, Delivery Confirmation, and so forth, are available. Cash, Check, Credit, Debit Cards and UV GreenBucks are accepted.

Campus Recreation & Wellness

- Located: SL 213
- Telephone: 801-863-5569

The Department of Campus Recreation & Wellness includes recreational portion of the Student Life & Wellness Center (SLWC), SLWC bowling alley/gaming center, SLWC climbing wall and the Wellness Programs, Intramurals and Outdoor Adventure Center departments.

Through our various services and programs, we offer a variety of recreational and health opportunities for UVU students. Our mission is to enrich the quality of life for students, faculty and staff by providing a broad range of recreation, wellness, and student engagement opportunities that complement the academic experience. We actively promote the pursuit of a balanced, healthy lifestyle to our diverse university community.

Career Development Center

- Office: LC 409
- Telephone: 801-863-6364
- E-mail: careerdevelopmentcenter@uvu.edu
- Web: uvu.edu/cdc
- Hours:
  - Monday - Friday 8 a.m. - 5 p.m.

The Career Development Center consists of career services and the CareerPassport and National Student Exchange programs. As a center we enhance individual career success and employment potential by fostering community, national and global relationships. Our services engage students and alumni in exploring and preparing for professional pursuits with the express purpose of empowering them to achieve their unique life goals.

Our services include access to:

- Wolverine Career Link at uvu.edu/cdc for students and employers (online job posting, job search, submitting resumes, scheduling interviews, etc.)
- Off-campus full-time, part-time, summer and temporary job openings
- Internship opportunities
- Counseling on career planning and preparation
- Training and online workshops on writing resumes, interviewing, networking, negotiating and more
- Labor market, salary and career employment information
- Career Lab walk in hours 9 a.m. - 4 p.m., Monday - Friday
- Job Search Strategies
- Interview Preparation/Mock Interviews
- Career & Internship Fairs
- Part-Time Job Fairs
- Local, national and international employers recruiting on campus
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- Group and class presentations on career related topics
- Career resiliency
- Career options for different majors
- Graduate School application assistance

CareerPassport Program

- Director: Sherry Harward
- Office: LC 409Q
- Telephone: 801-863-5460
- E-mail: careerpassport@uvu.edu
- Web: uvu.edu/careerpassport

CareerPassport is an engaged way for students to actively participate in career preparation while working towards a degree at UVU. The program addresses the individual career preparation needs of students at any stage of their academic experience through participation in expanded career activities and events.

CareerPassport participants may earn an Engaged Learning University Distinction (ELUD) in “Professional Engagement” by actively integrating and applying career preparation activities and experiences to their major coursework. The “Professional Engagement” ELUD distinction is awarded at graduation from UVU upon successful completion of the students’ major coursework and ELUD “Professional Engagement” track requirements.

“Professional Engagement” Track ELUD Requirements

- SLSS 1400 - Dimensions of Engaged Learning
- 10 Self Discovery Activities
- 10 Career Exploration Activities
- 10 Career Preparation Activities
- 10 Career Readiness Activities
- 1 Exploratory Career Excursion
- 1 Job Shadow
- 1 Internship
- 1 Professional Career Excursion
- 12 Career Mentoring Sessions
- 4 Career Networking Events
- 1 Engaged Learning Retreat
- Successful completion of required major coursework/GPA
- ELUD Graduation Interview

Center for Global and Intercultural Engagement

- Office: WB 147
- Telephone: 801-863-8311
- E-mail: cgie@uvu.edu
- Web: uvu.edu/cgie

The Center for Global and Intercultural Engagement (CGIE) supports the University efforts to prepare globally competent citizens. To accomplish these objectives, CGIE collaborates closely with colleges, schools, and other units across campus to create a community of students, staff, and faculty that share multicultural and international knowledge, attitudes, experiences, and efforts. We are committed to fostering an inclusive atmosphere for all students and to preparing them for an increasingly complex, diverse, and globalized society. CGIE is comprised of four programs.

1. International & Multicultural Studies: These programs support and facilitate international study programs, study abroad, internships, student exchanges, travel resources, global and multicultural faculty training, cultural excursions, and student workshops. The programs include the Global Spotlight Program, the New York Times Global Review, mentored research programs, and other engaged learning opportunities for students. IMS also is the primary provider of facilitation, training, and support for the Global/Intercultural Graduation Requirement. This requirement enables all UVU students to gain critical exposure to issues related to cross-cultural appreciation and understanding. IMS is also committed to inclusive teaching practices and approaches that enhance the learning of students from a variety of backgrounds and cultures.

2. Multicultural Student Services (MSS): Our programs provide a full range of support services targeting American minorities with an eye toward inclusion of all students across campus. The mission is to promote educational opportunities and intercultural enrichment for diverse heritage students and the wider campus community. Our programs aim to nurture student achievement and develop relationships that support student success, academic growth, retention, and completion of educational programs. Services include tutoring and counseling, social events, ethnic club advisement and support, cultural talent opportunities, and registration and financial aid advising.

3. International Student Services (ISS): Our programs provide advisement and support on visa, employment, and academic issues for UVU’s international student population. Students with questions regarding immigration, visa, or related issues may visit one of our advisors in WB147. ISS activities including orientations each semester for all new international students, managing the federally mandated Student and Exchange Visitor Information System (SEVIS) to ensure that all international students at UVU are legally “in status,” and providing a variety of services designed to promote the academic success of our international students.

4. International Affairs & Diplomacy (IAD): Our office advances UVU’s presence and reach in the international community through cultural exchanges, diplomatic visits, economic development partnerships, and other related activities. Programs include the hosting and connecting international dignitaries including heads of state, ministers, ambassadors, business, educational, and religious leaders. We also act as a subcontractor for the Library of Congress Open World program and operate activities in connection to the Utah-Russia Institute.
The Center for the Advancement of Leadership

- Director: Kris Coles
- Office: LC 302
- Telephone: 801-863-6466
- E-mail: cal@uvu.edu
- Fax: 801-863-8136

L.E.A.D. Program

The L.E.A.D. Program focuses on four key aspects of personal development (Learn, Engage, Acquire, and Discover). Together, these four aspects ensure leadership growth concurrently in both the personal and professional arenas.

The L.E.A.D. Program offers students the opportunity to receive the Engaged Learning University Distinction in Leadership after completing four semesters. Students completing two semesters will receive departmental recognition in the form of a standard certificate. Details on these options can be viewed at uvu.edu/leadership.

Care about Childcare at Utah Valley University

- Coordinator: Julia Mohr
- Office: EE 009
- Telephone: 801-863-8557
- Web: uvu.edu/cac

Care About Childcare @ UVU (formerly Child Care Resource and Referral Mountainland) is a state-funded resource for parents who are seeking child care in Utah, Summit, Juab or Wasatch counties. Parents can call the referral line at 801-863-8631 or toll free at 1-800-952-8220 or log onto the website at uvu.edu/cac and receive a free personalized list of available state-regulated child care that meets their requested work schedule and family size needs. CAC@UVU also teaches approved professional child care training that satisfies both the Utah Bureau of Child Care Licensing and Provider Professional Development Program career ladder requirements. CAC@UVU also offers services to Spanish speaking child care providers as well as grants and program coaching to child care family home providers and child care centers.

Clubs & Organizations

- Office: SL 122
- Telephone: 801-863-8820

Clubs and Organizations, also known as UV Clubs, connects students to UVU in a unique way that reflects each student's individual interests and academic desires.

UV Clubs, a branch of UVUSA, works with 100+ active clubs facilitating club success on campus. Many clubs are very active on campus and have received local, state, and national recognitions.

By getting involved in a club or organization students have the opportunity to increase leadership, citizenship, and service skills that enhance UVU and the community. Students meet new people, develop skill sets, and most of all, have fun. For information on existing clubs and/or procedures for chartering a new club, look on the web at uvu.edu/clubs, or contact the UV Clubs Office in SL 122.

Dean of Students/AVP Student Life

- Alexis Palmer
- Office: SL 201
- Telephone: 801-863-8311

The Dean of Students is committed to providing a growth enhancing environment in which all Utah Valley University students learn and develop to their fullest potential. Student Life at Utah Valley University promotes the psychological, physical, intellectual, occupational, spiritual and ethical wellness of all students, engages students socially, encourages civic involvement, and provides opportunities for experiential learning, leadership, and wellness through collaboration with the campus and community.

Dining Services

- Office: SC 201
- Telephone: 801-863-8664

The Dining Services Department is operated by and under the direction of Auxiliary Services in the Sorensen Student Center. The mission of the department is centered to students and their dining enjoyment and benefit.

- Centre Courte Food Court
  - Located: SC 1st Floor
  - Hours:
    - Monday - Friday 7 a.m. - 10 p.m.
    - (Certain areas of the Food Court)
    - Saturday
Introduction

- 8 a.m. - 5 p.m. (Subway)
- 10 a.m. - 4 p.m. (Pizza Hut)

With the recent expansion of the Student Center, food service options are plentiful. The Centre Courte has a large variety of retail food options. New additions to the food court include Costa Vida, Subway and Pizza Hut Express. Rockin’ Robbies’s Burgers, Fried, and Shakes, Hazuki- Asian Fusion, JFE Sushi Bar and the Wolverine Bake Shoppe.

- **Valley View Cafeteria**
  - Located: SC 2nd Floor
  - Hours:
    - Monday - Friday 7 a.m. - 4 p.m.

It is named for its exquisite view of the Utah Valley, and offers a more relaxed and unique atmosphere for students, faculty and staff.

- **Other Food Services**
  - Hours:
    - Monday - Friday at posted times

*Please check Dining Services website at [uvu.edu/diningservices](http://uvu.edu/diningservices) for more exact operating hours of all locations and updated menus and meal options.

Six remote food service locations are also available. The Trades Café is located on the 3rd floor of the Gunther Trades building. A food kiosk is available on the 4th floor of the Losee Center For Student Success. Also, the University Library now offers the Bytes and Brew Café featuring Starbucks coffee selections and additional coffee house brews, lattes, gourmet sandwiches and take-and-go meal options. Located at the intersection of the PE Hallway and the Student Life and Wellness Building are three additional branded restaurants, Jamba Juice, Taco Bell and the most recent healthy retail option: The Green Line Café, (formerly known as the LA Café). Our last two remotes are the HP Café in the Health Professions building and the ME Café, located in the McKay Education building.

The Sorensen Student Center and Catering Services is recognized in the community as one of the area’s finest catering services. It has earned a reputation in outstanding dining service quality for over 20 years. Clientele include students, administrators, staff personnel, conference groups, weddings, class reunions and local community groups. The Dining Services Department also manages the campus vending machines. Dining Services provides an excellent source of employment opportunities for UVU students in all of these venues.

Engaged Learning University Distinction

- **Office:** BA 211
- **Telephone:** 801-863-8471
- **E-mail:** elud@uvu.edu
- **Web:** [uvu.edu/elud/](http://uvu.edu/elud/)
- **Hours:**
  - Monday - Friday 9 a.m. - 5 p.m.

The Engaged Learning University Distinction (ELUD) contributes to the UVU’s “community engaged” classification through the collaborative connection of teaching, learning, scholarly, and service activities among students, faculty, and the community. The program provides UVU students the opportunity to integrate academic and co-curricular activities and demonstrate experiential learning to potential employers, graduate programs, or other post-graduate student pursuits. The distinction is an institutional graduation honor consisting of a certificate award, notation on the academic transcript, a graduation regalia cord, and related recognition. Students may select between three tracks within the university program.

1. **Leadership Track:** This program is administered through the Center for the Advancement of Leadership and may be achieved by completing specified requirements within the Center’s L.E.A.D. (Learn, Engage, Acquire, Discover) Program. This includes both classroom and other activities to promote well-rounded personal development including mentoring activities, interviews, service learning, guest lectures, and coursework related to a variety of leadership topics.

2. **Professional Engagement Track:** This Program is administered through the Institute for Professional Engagement and is connected to the CareerPassport Program, a self-paced effort that assists UVU students in preparing for career decisions and related post-graduate pursuits. Activities include career exploration, excursions, personality and interest testing, networking opportunities, career mentoring, job shadowing, internships, reflection assignments, e-portfolio preparation, and other experiential learning activities.

3. **Service Learning Track:** This program is administered through the Volunteer & Service Learning Center and is geared toward students who would like a structured emphasis on service and civic engagement as part of their university experience. Activities include service projects, academic reflection assignments, portfolio preparation, and other opportunities to connect students with community organizations and programs.

4. **Global/Intercultural (G/I) Track:** This program is administered through the G/I committee and the Center for Global/Intercultural Engagement and is geared toward students who wish to have a structured emphasis on global, intercultural, and diversity issues during their collegiate career. It offers students an opportunity to interact with diverse ideas and people from a wide range of cultural backgrounds. Students will take four G/I designated courses and participate in activities such as international or domestic multicultural excursions, service projects, academic reflection assignments, global spotlight events, and other cultural awareness building activities.

All students in ELUD are required to complete an introductory course in engaged learning related to their chosen track. This will include interaction with a variety of experts and leaders across the university and will give students the opportunity to plan their program, collaborate and share ideas with other students, and participate in a broad array of campus events. Students will also complete a capstone project related to their track that includes a portfolio of activities that demonstrate their level of engagement and preparation for post-graduate experience. Visit the program website for detailed information on courses and track requirements.

Equity in Education: Training & Resource Center

- **Director:** Jennie Briggs
- **Office:** LC 405b
- **Telephone:** 801-863-8498
The Equity in Education Center's focus is to promote inclusion, acceptance, and respect for diversity in Utah classrooms, work environments, and communities; to assist Utah's workforce and future workforce in becoming self-sufficient through knowledge of opportunities and positive decision making; to raise awareness of the harmful effects of media and advertising on our society and to raise awareness and advocate prevention of violence and abuse in our community. The Equity Center sponsors the annual Empowering Your Tomorrow boys' conference, the annual Expanding Your Horizons girls' conference and the bi-annual Clothesline Project, which is a violence awareness and prevention program held in April and October. Additionally, the Equity Center offers free trainings on topics such as; Stereotyping, Cultural Diversity, Making Language Inclusive and more. The Equity Center also houses a free resource library consisting of books and videos that cover a wide variety of equity and diversity related topics.

First-Year Experience (FYE)

- Office: LC 405
- Telephone: 801-863-4000
- E-mail: success@uvu.edu
- Web: uvu.edu/firstyear

UVU's First-Year Experience (FYE) program is designed to help new students make a smooth and successful transition to college life. Participation in the following FYE programs will help students build a foundation of success:

- Orientation
- Freshman Reading Program
- Freshman Convocation
- StartSmart
- UVCommit
- Freshman Year-End Celebration
- Learning Communities
- Personalized Academic Advisement

Housing and Residence Life

- Office: SL 214
- Telephone: 801-863-8659
- E-mail: housing@uvu.edu
- Web: uvu.edu/housing
- Hours:
  - Monday - Friday 9 a.m. - 5 p.m.

The Department of Housing and Residence Life provides students with a variety of housing services, such as scholarships, searches, laws, disputes, housing booklet and housing fair. Information concerning local housing options, availability and pricing is available on our website at uvu.edu/housing, in the Housing Office, or through email.

Utah Valley University does not own or manage any student housing on or off campus. The University works closely with student housing to provide accurate and up-to-date information on all housing options listed within the local area, so that students can choose the most suitable housing while attending UVU.

Should disputes between a Landlord and a UVU Student Tenant arise, a free mediation service is available through the Office Student Conduct and Conflict Resolution located in SL 201. To schedule an appointment for mediation services, please call 801-863-7237.

Instant Info/One Stop Call Center

Desks and Computer Kiosks Located at:

- Administration Building BA 100a
- Gunther Trades Level 6 entry
- Computer Science Building Level 4
- Science Building Level 1
- Liberal Arts Building Level 1 entry

Computer Kiosks Located at:

- Automotive Trades Level 3
- Student Center/Learning Center Level 1
- 
- 
- Telephone: 801-863-INFO (4636)
- E-mail: instantinfo@uvu.edu
- (Answered within 24 hours)
- Text: 801-404-3757
- (Taken during business hours)
Instant Info and the One Stop Call Center provide comprehensive assistance to new, continuing, and transferring students as well as parents, staff, faculty, and the general public regarding all aspects of student services. At Instant Info, trained peer advisors field all inquiries through walk-in, e-mail, text message, and telephone assisting patrons in resolving issues. In the One Stop Call Center, One Stop advisors answer all incoming calls to the University Campus as well as take real time chats to assist patrons in resolving issues. Should a referral be required, patrons are directed to an individual/department or contact information is provided. Personnel are trained to assist patrons with the following:

- Electronic admissions applications
- WEB START
- Registration - UV Link
- Personalized textbook lists - BookMatch - UV Link
- Degree and program requirements
- Refer to Advisors
- Degree evaluations - academic record of completed, in progress, and remaining classes - UV Link, Wolverine Tracks
- Online credit card and electronic check payments
- Answer questions regarding electronic financial aid applications - FAFSA
- Direct to and answer questions regarding electronic loan counseling
- Accessing instructors and online assignments - Canvas
- Class schedules and catalogs
- Campus activities and events
- Online parking services assistance
- Locations and directions
- PIN numbers/change of address
- Answer questions via e-mail or text message
- Assisting with adding and dropping classes, and checking financial aid
- Assisting callers with all other online services

Intramural Sports

- Manager: Jen Berrett
- Office: SL 213
- Telephone: 801-863-5568
- E-mail: jberrett@uvu.edu

The Intramural Sports Program is one of the largest co-curricular activity programs that complement the formal academic curriculum. It offers extensive opportunities to currently enrolled Utah Valley University students, faculty, staff and their spouses/partners in a number of competitive and structured activities each year. Participation in the program is voluntary and determined by interest.

Participation can provide one with opportunities to have fun, learn new sports, meet people from other cultures, test one’s physical ability as well as offer a break from routine. Team sports generally take on a league structure and a post-season tournament to determine champions. Special events range from one day to several day tournaments. In most events, skill levels and divisions are established to allow competition for men’s, women’s, co-ed and Mixed teams at various skill levels.

The Intramural Sports program strives to provide programming for all levels of ability and experience. Our aim is to serve the recreational needs of the majority of the student body and not just the athletic minority.

A competitive spirit of fair play and good sportsmanship is encouraged in order to provide all with a wholesome recreational experience. Participants and staff are asked to conduct themselves in a manner consistent with, and in support of, those values set forth by Utah Valley University.

“Sportsmanship is no different from fair play in life. When someone crowds into line at a grocery store, that person is a poor sport. We need to discipline ourselves and control our reactions in similar situations in sports.” - Clark Thorstenson

Learning Strategies Support

See Tutoring and Academic Skills Services (TASS) in University College.

Library

- Telephone: 801-863-8886
- Fax: 801-863-7065
- Web: uvu.edu/library
- Hours:
  - Monday - Friday 7 a.m. - midnight
  - Saturday 8 a.m. - 7 p.m.
- Director: Lesli Baker
- Office: Library 503e
- Telephone: 801-863-8286

The Library has thirteen librarians and a friendly staff waiting to help! In-person and online research help is available to assist students and faculty with locating the information and resources they need. The Library houses hundreds of thousands of materials, both physical and electronic, including books, films, journals, newspapers, audio/visual equipment, and much more. UVU student cards are accepted for checking out materials at all college and university libraries in the state. Interlibrary Loan service quickly gets materials not available
at our Library from across the United States for free. The Library is a dynamic space that hosts the information commons computer lab, the writing center, visual arts lab, specialized hardware and software for students with disabilities, a deaf studies lab, the Center for Teaching Excellence and Innovation Center, the Center for Constitutional Studies, and an art gallery.

Lockers

- Office: FC 100 (Facilities Complex)
- 336 S. 400 W., Orem
- (Next to Parking Services)
- Telephone: 801-863-8130
- Hours:
  - Monday - Friday 7 a.m. - 5 p.m.

Lockers are available for student use in the Gunther Technology Building and are rented through the Facilities/Physical Plant Office. Locker rentals are $5 per semester or $13 per year. This fee is non-refundable. Renewal of lockers needs to be completed before the end of the semester to avoid locker changes and clearance of contents. The renter is responsible for any damages to the locker(s).

Math Lab

See Tutoring and Academic Skills Services (TASS) in University College.

National Student Exchange

- Office: LC 410p
- Telephone: 801-863-6750
- E-mail: Julieb@uvu.edu

National Student Exchange embodies the overall mission of Utah Valley University by providing meaningful Engagement Opportunities for its students. The National Student Exchange (NSE) which is a service within the Career Development Center, provides opportunities for undergraduates, to study for up to one calendar year at another NSE member college or university and pay in-state tuition.

With over 200 colleges and universities from which to choose, students can find a campus that is “custom” to individual degree plans, with just the right combination of courses, facilities, and environment to meet unique personal and academic needs and interests. Spending time at another campus will allow students to grow academically and personally. Students will develop a greater appreciation for the different regions, cultures, and people. NSE extends beyond the borders of the United States to include U.S. territories as well as some Canadian provinces. Students participate in order to:

- Broaden personal and educational perspectives
- Explore and appreciate new cultures
- Widen university boundaries
- Take courses not offered at the home campus
- Learn from different professors
- Access courses with different perspectives
- Explore new areas of study
- Experience personal growth
- Break out of their comfort zones
- Live in a different geographic area
- Acquire life skills
- Investigate graduate or professional schools
- Look for future employment opportunities
- Become more independent and resourceful

NSE is a “study away” experience that fits into university initiatives for globalization and diversity. NSE participants have found their exchanges culturally enriching, academically rewarding, and one of the most significant experiences of their undergraduate education. Since it’s founding in 1968, more than 100,000 students have had the opportunity to experience life from a different point of view.

Students will need a 3.0 cumulative GPA and one-year of university work, to join the more than 85,000 students who have been placed in life-changing exchange situations which challenged their thinking, expanded their educational, personal experiences, and encouraged them to take risks.

Ombuds

- Office: SL 212b
- Telephone: 801-863-7237

Within the UVU community misunderstandings and disagreements needing resolution occur. The UVU Ombuds is a mediator who is familiar with campus policies, student’s rights and responsibilities, and can help find useful options within these guidelines. In order to serve as a mediator, as opposed to an advocate, the Ombuds neutrally and objectively listens to all problems and works with the parties involved to find a solution. The Ombuds may be used as a resource for help in a variety of difficult situations. The Ombuds can help with:
Introduction

- Interpersonal conflicts
- Sexual Harassment
- Academic complaints and conflicts
- Housing/Landlord disagreements
- Discrimination complaints
- Grading procedure disputes
- School policy and procedures
- Others

All services are offered to UVU students free of charge.

One Stop Student Services

- Director: Francie Hallman
- Office: BA 108
- Telephone: 801-863-8735

The mission of One Stop is to provide quality professional services in the areas of Enrollment, Financial Aid, and Payments, in support of students' academic objectives. UVU One Stop affirms that the student is the heart of the educational enterprise.

One Stop Advisors provide assistance to prospective and current students in the following areas:

- Admissions
- Registration
- Payments
- Financial Aid
- General Campus Information

Each of these processes is also available through UVU online services (UVLink).

Outdoor Adventure Center

- Office: SL 216
- Telephone: 801-863-7052
- Web: uvu.edu/oac
- Hours:
  - Monday - Friday 8:30 a.m. - 5 p.m.
  - (fall and spring semesters only)
  - Monday - Friday 9 a.m. - 5 p.m.
  - (summer semester only)

The Outdoor Adventure Center provides students, staff, faculty and the community an opportunity to learn from the vast outdoor classroom. We offer participants a chance to experience nature while also learning how to protect and preserve the natural environment. Opportunities range from clinics, adventure outings, and afternoon activities. We also offer equipment rentals and retail items that will help get you outside! We collaborate with different academic departments in offering experiential education outside of the classroom, call us today if you are interested in planning an activity for your students. Come in today and let us help with your next adventure. For a list of rental prices visit uvu.edu/oac.

Parking & Transportation Services

- Located: 936 S. 400 W., Orem
- Telephone: 801-863-8188
- Hours:
  - Monday - Friday 7 a.m. - 5 p.m.

Parking permits are required to park anywhere on the UVU main campus and west campus. UVU uses license plate reader technology and assigns a digital permit to your vehicle license plate at the time of permit purchase. Parking permits are available in our office at 936 S. 400 W. or online through the link found at uvu.edu/parking - there is also information on the site regarding parking maps, regulations, and other information to assist you in parking on campus. We can also be contacted by phone at 801-863-8188 Monday through Friday 7 am to 5 pm.

Parking for People with Disabilities

Only those vehicles carrying distinctive (logo) license plates for people with disabilities or temporary/permanent permits obtained from the Utah State Division of Motor Vehicles at 150 E. Center in Provo plus a valid UVU handicapped parking permit shall be allowed to park in stalls for the disabled. If all disabled stalls are full in a given area, those displaying a disabled permit may park in the nearest available stall.

Student and Employee Parking

Students and employees operating vehicles on University properties must adhere to all state, local, and university traffic/parking regulations. To park on campus, students and employees must obtain a valid parking permit from Parking Services. Employees and Students will need to provide their vehicle information e.g. license plate number, make and model before a permit can be issued to them. Permits are not required to park in any employee or student lot after 5 p.m.
**Visitor Parking**

Visitors operating vehicles on University property must adhere to all state, local, and university traffic/parking regulations. There are three visitor pay lots on campus. The Lakeside Visitor Lot and Admissions Meter Lot are located on the south side of campus, and the Parking Garage is on the north side by the Student Life building. The cost to use the lot is posted at the lot, as well as on the Parking Services website. These lots are pay-by-space parking and each stall is numbered. Pay stations are located in convenient locations in these lots. Payment is required in these pay lots from 5 AM through 10 PM, seven days a week. Payment is required at the time you park at one of the pay stations. If you have any questions regarding parking on campus please contact the Parking Services Office at 801-863-8188.

**Physical Education Services (Issue Room)**

- **PE Services Director:** Sam Atoa  
  **Office:** PE 119  
  **Telephone:** 801-863-8567

- **Assistant Director:** Blake Higginson  
  **Office:** PE 150 (Issue Room)  
  **Telephone:** 801-863-8628

The Physical Education building serves as the home for many Physical Education classes, Intercollegiate Women’s Volleyball, and Men’s Wrestling.

Facilities included are: men’s/women’s locker rooms, one main basketball floor, a multipurpose area, a single lane indoor track, one aerobic/dance area, a martial arts room, weight room, cardio machines, racquetball courts, a motor learn lab, dance rooms, and various faculty/staff offices.

UVU PE Issue t-shirts are required to use the Physical Education Facilities. Students with current student ID cards are encouraged to use the facilities at no cost during open hours. Faculty/Staff are also allowed to use the facilities. You must have your UVU ID card to check out the issue clothing. Lockers are available to rent each semester. Family faculty/staff and student spouse passes are also available for a nominal semester fee. For additional information, hours of operation and to reserve a racquetball court, please refer to the PE Issue room (PE 150) or call 801-863-8628.

**Printing Services**

- **Printing**  
  **Located:** GT 533  
  **Telephone:** 801-863-8415

- **Copy Center**  
  **Located:** SC 101g  
  **Telephone:** 801-863-8355

Printing Services provides copying, offset printing, and graphic design services for the UVU community. The primary digital printing production center is located in the Gunther Technology Building room 516D. A smaller facility is located in the Student Center near the bookstore. Printing Services also operates the Visual Arts Lab located in the library. This facility is open to the public but caters primarily to art students. The Visual Arts Lab provides many media and art-related services including digital mat board cutting, laminating, wide format printing, photo mounting, copying, and faxing. The lab also sells a variety of materials and supplies. In addition, lab employees can help students identify and resolve technical issues with their graphics files. Students have access to all of the Printing Services operations except for the offset print shop.

**Prospective Student Services**

- **Located:** LC 408  
  **Telephone:** 801-863-8811  
  **Fax:** 801-863-7305  
  **Web:** uvu.edu/futurestudents

The office of Prospective Student Services (PSS) provides future students with the necessary tools, knowledge, and assistance needed to become a student at UVU. Our office coordinates recruitment initiatives and events designed to provide support for new and transfer students. In addition to helping prospective students, PSS establishes positive relationships with high school and junior college counselors and administrators. PSS works closely with the Enrollment Marketing department, coordinating student data management and prospective student marketing publications.

Our office gives campus tours and organizes high school and transfer events. If you would like to schedule a tour, attend an event, or receive additional information about UVU please call 801-863-8811 or visit our website, uvu.edu/futurestudents.

- **Provo adult education**  
  **Office:** 636 N. Independence Ave., Provo  
  **Telephone:** 801-374-4840  
  **Fax:** 801-374-4816

Provo Adult Education offers services to all UVU students who begin their college studies before they have earned a high school diploma. The purpose of PAE is to help students convert college credits into credits that apply toward high school diplomas or prepare to take the GED for the Utah High School Completion Diploma. Any UVU student can participate regardless of age or school district boundaries. Services at PAE include counseling for high school completion, high school level classes, GED testing information and preparation, and skill-building classes.
Introduction

Sorensen Student Center

- Office: SC 105
- Telephone: 801-863-8612

Located in the heart of the Orem Campus, the Wilson W. Sorensen Student Center represents the center for campus life. The Center provides students, faculty, staff, and guests a setting for informal associations, special events, banquet and workshop facilities, social and cultural activities, and the everyday amenities such as food, books, and supplies. Services and activities provided by the Student Center include the following:

- **Bookstore**
  - Located: SC 102
  - Telephone: 801-863-8641

- **Campus Connection** (VID and proximity card, information, and box office services)
  - Located: SC 106
  - Telephone: 801-863-8797

- **Copy Center**
  - Located: SC 109
  - Telephone: 801-863-8355

- **Dining & Catering Services**
  - Located: SC 201
  - Telephone: 801-863-8664

- **Food Court**
  - Located: SC 111

- **Office of Student Affairs**
  - Located: SC 109
  - Telephone: 801-863-6158

- **Ragan Theater** (400 seat facility for multi-purpose event and program functions)
  - Located: SC 216
  - Telephone: 801-863-8799

- **Scoops Ice Cream Shop**
  - Located: SC 103f

- **Student Center Administration & Scheduling**
  - Located: SC 105
  - Telephone: 801-863-8612

- **Student Health Services** (medical services, mental health therapy, wellness education)
  - Located: SC 221
  - Telephone: 801-863-8876

- **U.S. Postal Services**
  - Located: SC 104
  - Telephone: 801-863-6067

- **Utah Community Credit Union**
  - Located: SC 101j
  - Telephone: 801-863-6244

- **Valley View Room** (cafeteria & dining services)
  - Located: SC 203

- **Volunteer & Service Learning Center**
  - Located: SC 105
  - Telephone: 801-863-8786

- **Conference Room Facilities**
  - Grande Ballroom: SC 106a
  - The Commons: SC 106
  - Centre Stage: SC 108
  - SC 206a, SC 206b, SC 206c,
  - SC 206g, SC 206h, SC 213a,
  - SC 213b, SC 213c, SC 214

Student Computing
Introduction

- Office: SC 116
- Telephone: 801-863-8390
- Web: uvu.edu/studentcomputing

Student Computing has been established to provide computing resources and technical support services that enhance the educational experience of the students of UVU. These services include: The Open Student Computer Labs, Computer Rental, Campus Kiosks, student account management, print audit, UVlink portal.

The Open Student Computer Labs are available to all currently registered UVU students on a first-come, first-serve basis. No charge is required for the use of the computers. Lab Assistants are available to provide support and to help keep the equipment running. These labs contain 254 computers and have Internet access and E-mail as well as popular application software to assist students with their class work.

- Info Commons Lab
  - Located: LI 1st Floor
  - Telephone: 801-863-6932
  - Hours:
    - Monday - Friday 7 a.m. - midnight
    - Saturday 8 a.m. - 7 p.m.
    - Check with lab assistant for holiday and summer hours

The “D.L.C.” lab is located on the bottom floor of the library. With 124 workstations, this is the largest open lab on campus.

- Computer Loft
  - Located: SC 215
  - Telephone: 801-863-6081
  - Hours:
    - Monday - Thursday 7 a.m. - 11 p.m.
    - Friday 7 a.m. - 7 p.m.
    - Saturday 8 a.m. - 5 p.m.
    - Closed Sunday
    - Check with lab assistant for holiday and summer hours

The “Computer Loft” lab is located across from the Ragan Theater.

- Computer Rental
  - Located: SC 116
  - Telephone: 801-863-8390
  - Hours:
    - Monday - Friday 9 a.m. - 4 p.m.

The “Student Computer Rental” is located at the north end of the Student Center.

- Greenhouse
  - Located: PS 101
  - Telephone: 801-863-7147
  - Hours:
    - Monday - Thursday 8 a.m. - 11 p.m.
    - Friday 8 a.m. - 7 p.m.
    - Check with lab assistant for holiday and summer hours

The “Greenhouse” lab is located at the junction of the Student Center, Science Building, and Activity Center.

- Wasatch
  - Located: WC 206 (Heber)
  - Telephone: 801-863-6628
  - Hours:
    - Monday - Thursday 6 a.m. - 9 p.m.
    - Friday 6 a.m. - 6 p.m.

- Black Ops
  - Located: NG 107
  - Telephone: 801-863-7147
  - Hours:
    - Monday - Thursday 8 a.m. - 8p.m.
    - Friday 8 a.m. - 4:30 p.m.
    - Check with lab assistant for holiday and summer hours

UV Link provides access to class registration, student information, Canvas and many other online services. To use this system you must be accepted for admission and have a PIN number that is assigned at the time you were admitted.

Student Government
Introduction

- Utah Valley University Student Association (UVUSA)
  - Office: SL 122
  - Telephone: 801-863-8652

Student government offers a variety of elected and appointed offices through which students can influence and enhance the social and academic climate of the University. All students are encouraged to support and participate in the student association. Elections to fill positions in student government are held each February/March, appointed student council positions are filled in March/April and any vacancies at the beginning of each semester. All students are members of the Utah Valley University Student Association (UVUSA) and are welcome to apply for committee positions at any time during the year.

Information on involvement opportunities in student government can be obtained from the Student Government Office (SL 122) or by visiting the website uvu.edu/uvusa.

Student Health Services

- Office: SC 221
- Telephone: 801-863-8876

The Student Health Services is designed to assist students, faculty, and staff with a variety of health issues. Our purpose is to provide patrons with opportunities to improve their health through basic medical care, psychological services, suicide prevention and awareness, and health education. We promote healthy lifestyles through practitioner services and educational programs that teach effective life skills and behaviors. Our focus is on promoting a healthy body, healthy mind, and healthy lifestyle. Nominal fees are charged for each visit. Insurance coverage is not needed to receive health services. Additional fees may be charged for lab work or clinical assessments.

Therapy Services

Personal Counseling, Emotional Support, Learning Disability Testing and Referral

Student Health Services offers short-term counseling to assist students through stressful and crisis situations affecting their performance in school and personal relationships. Services include assertiveness training, ADHD assessment, stress management, alcohol and drug abuse treatment, motivation, and building self-esteem. Counseling is also available for pre-marital issues, conflict management, eating disorders, abuse, depression/anxiety, and LD testing. Persons aware of problems with friends, roommates, or family members enrolled at or employed by UVU are encouraged to act responsibly by consulting with one of the Student Health Services therapists as soon as possible (contact us at 801-863-8876). UVU supports the premise that students and employees will help one another to cooperatively solve problems as they occur.

The therapists are experienced professionals who offer support in an atmosphere of understanding and confidentiality. Programs offer both individual assessment, individual and group counseling and referral to campus and community resources. To set an appointment with a psychological professional, please contact us at 801-863-8876.

Medical Services

Medical services are available within Student Health Services. Student health is promoted through a complete offering of medical services. We are able to write prescriptions, do lab work, physical exams, sutures and treat many other medical conditions. We treat a variety of acute and chronic illnesses and injuries. We are staffed by medical doctors, nurse practitioners and medical assistants.

Students currently enrolled at UVU or any of its satellite campus locations are eligible for medical care on the Orem Campus. To set an appointment with a medical professional, please contact us at 801-863-8876.

Suicide Prevention

For staff or classroom training please contact us at 801-863-8876. In the case of an emergency please call 911 or 801-863-5555. A Student Health Services therapist is on call 24 hours a day to assist students, staff, and faculty in crisis (call 801-863-5555 police dispatch to access an SHS therapist *for emergencies only*).

Student Involvement

- Director: Grant Flygare
- Office: LC 205
- Telephone: 801-863-6227
- Web: uvu.edu/studentinvolvement

The Office of Student Involvement builds and facilitates action learning activities and expeditions for student centered learning (out of the classroom, hands-on, experience-centered learning). OSI works collaboratively with students, faculty and professional community partners to bring about a full and exciting student life experience. OSI is engaged learning: it is Student LIFE!

Students may join in student life experiences through creating or joining an Action Learning Community, developing student leadership skills by becoming a Action Learning Leader, or participating in numerous hosted and sponsored activities in the Student Engaged Learning ZONE in the UVU Sorensen Student Center. Faculty are invited to apply for Action Learning Fellowships where they can collaborate with the Office of Student Involvement to create action learning expeditions and receive assistance from an Action Learning Leader as they create engaging expeditions and create professional relationships with community partners.

Details on these opportunities for engaged learning may be found by contacting the Office of Student Involvement.

Student Media & Publications

- Office: SL 214
Student Media and Publications is UVU's home of The UVU Review, the independent student newspaper. Students interested in producing news, writing, photography, graphic design, advertising sales, video broadcast content, web page content and design should come for practical experience and learning. These nationally award winning student media are produced year around. If you're interested in receiving hands on experience producing media publications visit us in SL 214. Call Media Coordinator 801-863-6498 for additional information.

Student Success/UV Mentor Program

See University College.

Testing Services

Office: Wolverine Service Center–North Entrance

Testing Services assists both students and staff. It is divided into three branches: the Assessment Center, the Classroom Testing Center, and the Proctored Exam Center.

- **Assessment Center**
  - Located: WS 101
  - Telephone: 801-863-8269

The primary responsibility of the Assessment Center is to assist all new students in developing a first-year educational plan. In addition to orientation and advisement, all students must meet the University’s assessment requirements. This information is used to place students into appropriate Math and English courses, which will in turn, help to ensure student success. Testing sessions for new students are conducted throughout the day, no appointment necessary, but check our website for details at uvu.edu/testing_services, as our hours do change at different times during the year.

New students must meet one of following assessment requirements:

1. ACT/SAT Scores
   a. English: Not older than 3 years.
   b. Math: Not older than 2 years.
2. New Student Assessment
   a. Required for UVU students for assessment purposes. Administered in the Assessment Center. There are 3 sections: reading, writing, and math. For more details and information, call the Testing Services department at 801-863-8269 or visit our web pages: uvu.edu/testing_services. Fees are charged for assessments.
3. Transfer Credit
   a. Completed English Composition and Algebra at another college/university, with a C or higher (verified by official college transcripts mailed directly from your previous institution to UVU Admissions).
   b. Another function of Testing Services is to administer screening instruments, standardized tests, and other assessment instruments required by University programs and departments. Some of these include the GED, CLEP, SAT, ACT, EMT and POST tests. Pre-enrollment English proficiency assessment for international students is also a service provided in Testing Services. The department is an established site for residual ACT testing. Certification testing for different programs offered by UVU and the surrounding community is also available. Students can obtain information on tests in the office and hours of operation by calling 801-863-8269 or by visiting the web page at: uvu.edu/testing_services.

- **Classroom Testing Center**
  - Located: WS 112
  - Telephone: 801-863-7461

The Classroom Testing Center (CTC) is located in the Wolverine Service Center (WS 112). The CTC provides testing services enabling students to take participating instructors’ exams in the center on a flexible schedule. The CTC is generally open six days a week Monday - Saturday. Students can obtain test schedules and scores by logging into chitester.uvu.edu and use UV Link user name and password to log in. Highlight the exam name and click on View test score(s).

- **Proctored Exam Center (PEC)**
  - Located: WS 111
  - Telephone: 801-863-8544

The Proctored Exam Center (PEC) provides testing accommodations to UVU students with disabilities as well as services for distance education students who need to have a test proctored from another university or college. Students with disabilities requiring assistance MUST obtain a letter from the Accessibility Services Department before being eligible to use the PEC. Scheduling an individual appointment for testing is required for both parties. For scheduling information and further assistance, call 801-863-8544.

Trio College Prep Programs

Educational Talent Search & Upward Bound

Talent Search

- Director: Maraia Weingarten, Ph.D.
- Telephone: 801-863-8076
- E-mail: weingama@uvu.edu
Introduction

- Coordinator: Michael Campbell, J.D.
- Telephone: 801-863-8569
- Administrative Support: Kasha Farmer
- Telephone: 801-863-7414

Talent Search serves young people in grades six through twelve. In addition to counseling, participants receive information about college admissions requirements, scholarships and various student financial aid programs. This early intervention program helps young people to better understand their educational opportunities and options. UVU services Orem, Provo, Wasatch, South Summit, Duchesne, and Uintah.

Upward Bound

- Director: Maraia Weingarten, Ph.D.
- Telephone: 801-863-8076
- E-mail: weingama@uvu.edu
- Coordinator: Victor Narsimulu, MoB
- Telephone: 801-863-8570
- Administrative Support: Rebecca Ayala
- Telephone: 801-863-7216

Upward Bound helps young people and adults prepare for higher education. Participants receive instruction in literature, composition, mathematics and science on college campuses after school, on Saturdays and during the summer. UVU services students from Orem, Provo, Wasatch, Duchesne and Uintah.

Trio Student Support Services

- Office: WB 100
- Telephone: 801-863-8541

TRiO Student Support Services (SSS) is a federally funded program. The purpose of TRiO SSS is to:

1. Increase the retention and graduation rates of eligible students
2. Increase the transfer rate of eligible students from two-year to four-year institutions

Foster an institutional climate supportive of the success of low-income and first generation college students and individuals with disabilities through a variety of services such as:

- needs assessment testing
- individual education planning
- academic, career, and transfer counseling
- tutoring
- cultural events
- study skills and personal development classes
- workshops and guest presentations

To be eligible to receive TRiO SSS services, a student must meet all of the following requirements:

1. Is a citizen or national of the U.S. or meets the residency requirement for Federal student financial assistance
2. Is enrolled at UVU or accepted for enrollment in the next academic semester
3. Has a need for academic support, as determined by UVU, in order to successfully pursue a post-secondary educational program

Meets at least one of the following criteria:

- Low income
- First generation college student
- Has a disability which inhibits the learning process

Eligible students are selected into UVU’s TRiO SSS program based upon their academic need and upon their ability to benefit from the services offered. Space is limited, so students are advised to apply early.

Turning Point

- Director: Carol Verbecky
- Assistant Director: Dixie Sevison
- Office: HP 116
- Telephone: 801-863-7580
- Web: uvu.edu/turningpoint
Turning Point/Center for Personal and Career Development is a community and university resource for individuals wanting to improve on a personal, educational and/or professional level. It is dedicated to quality support services which increase the emotional, social and economic well-being of all participants. Individuals can access numerous services to help complete education goals, build personal relationships, master communication skills, learn job-seeking strategies, explore career options and enter the work force. Scholarships are available for qualifying individuals.

Tutoring & Academic Skills Services

See University College.

UCCU Center

- Office: EC 012
- Telephone: 801-863-8767

The UCCU Center is a multipurpose facility serving the University and the community. The UCCU Center hosts a variety of local and special performances, sports events, educational seminars, concerts, conventions, trade shows, lectures and other community gatherings.

Some events that are hosted here include basketball games, circus performances, business trade shows and expos as well as various types of concerts. The events center is an excellent choice for hosting any kind of event.

Athletics

The mission of UVU Athletics is to provide a wide range of athletic programs that are highly competitive and nationally recognized on a consistent basis. The department seeks to provide the individual athlete with the opportunity to improve athletic skills and abilities while obtaining an exceptional quality education with the best facilities and coaching staff available, to benefit the athlete in future academic, athletic, and vocational endeavors. Each student-athlete is required to be in good standing academically and making progress toward graduation with a bachelor degree according to NCAA requirements.

The Wolverines compete at the NCAA Division I level and currently are members of the Western Athletic Conference. UVU offers the following NCAA Division I sports: Baseball, Softball, Men’s and Women’s Basketball, Men’s and Women’s Cross Country, Men’s and Women’s Golf, Men’s and Women’s Indoor and Outdoor Track and Field, Men’s and Women’s Soccer, and Women’s Volleyball.

For more specific information regarding any sport or team, please call our Athletic Department Office at 801-863-8998, or look us up on the internet at: wolverinegreen.com.

Cheerleaders & “THE WOLVERINE”

The UVU Cheerleaders are a large part of promoting fan involvement and enthusiasm at UVU athletic events. The squad consists of highly talented young men and women who perform stunting and tumbling routines.

The WOLVERINE is the school mascot who is also involved in crowd interaction and may be seen hanging from the rafters or dropping through the middle of the basketball hoop to excite fans.

Tryouts for these positions are held each spring, and specific information about tryouts may be obtained by calling Student Leadership and Activities at 801-863-8150.

Dance Team

The UVU Dance Team is comprised of 12-16 skilled dancers who perform regularly at UVU Athletic Events. The Team employs a wide range of styles and utilizes Jazz, Funk, and Lyrical Dance numbers, all choreographed by the team members and director. Tryouts are held each spring. For more information call Student Leadership and Activities at 801-863-8150.

Veteran’s Service Office

- Office: BA 114
- Telephone: 801-863-8212
- E-mail: veterans@uvu.edu
- Web: uvu.edu/veterans

Veterans eligible for VA Education Benefits may obtain assistance at the Veterans’ Services Office located in the Graduation and Transfer Services Department. Veterans not receiving VA educational benefits are also encouraged to bring their Military Transcripts or JST transcripts to this office to begin the evaluation process.

Guideline for Enrollment and Progress

According to VA standards of progress, educational benefits will be paid for courses required for graduation in the student’s declared educational objective. Eligible persons will be required to maintain a 2.0 cumulative GPA or higher and to actively and consistently pursue their declared educational objective. To receive Veterans Educational Benefits, students are required to attend class. Benefits will be terminated for non-attendance. This may cause an over-payment to the student. Most veterans receiving VA educational benefits must verify their attendance to receive their benefits. Please check with the Veterans’ Service Office for current procedures.

Veterans and dependents receiving grades of “UW” (unofficial withdrawal) or “W” (withdrawal) will have to reimburse the VA for any difference in pay, retroactive to the beginning of the semester, unless they can report mitigating circumstances to the Department of Veterans Affairs. Benefits will not be paid for a course that is audited (AU).

New Veterans
New students applying for VA educational benefits may be requested to submit to the UVU Veterans’ Service Coordinator either original or certified copies of the following documents: (1) DD Form 214 (students may be eligible for a minimum of four semester hours of transfer credit), (2) DD-2384 (Notice of Basic Eligibility), (3) VA claim (c) number, if applicable, and (4) Copy of Vonapp application. This information is needed as soon as possible to ensure timely and accurate processing of benefits. UVU forms can be found online at [uvu.edu/veterans](http://uvu.edu/veterans). Official transcripts from all previously attended colleges or universities are required. The VA will not pay for any course the student has previously taken and successfully completed.

An advance pay may be requested by contacting the UVU Veterans’ Services Office at least six weeks prior to the first day of classes, for students attending on the UVU Campus. Post 9/11, 1607 and Global Aviation Students are not eligible for Advance Payment. In addition, the student requesting the Advance Payment may not have been already receiving VA Educational Benefits within 30 days prior to the start of the semester. This payment does not automatically pay a student’s tuition (Contact Veterans’ Services Office for further information).

**Continuing & Returning Veterans**

All continuing and returning veterans must submit to UVU Veterans’ Service Office promptly after registering for the semester a Veterans’ Class Schedule Form that can be found online. This form must be submitted each semester to indicate that the student requests to receive educational benefits for that semester. Please be aware that adding and dropping classes may cause a debt with the Veterans Administration.

**Volunteer & Service-Learning Center**

- Office: SC 105
- Telephone: 801-863-8786
- E-mail: volunteer@uvu.edu
- Web: [uvu.edu/volunteer](http://uvu.edu/volunteer)

The Volunteer and Service-Learning Center engages students, faculty, staff, and community organizations in collaborative work and sustained partnerships to create transformative learning experiences and positive community change. Our work focuses on academic service-learning, student leadership, community partnerships, and campus collaboration. Students can participate in several one-time and weekly service opportunities through the Student Service Council. Students can also receive the Engaged Learning University Distinction on their transcript for participating in service by enrolling in the Service Scholar Program. For more information on all the ways you can get involved, visit [uvu.edu/volunteer](http://uvu.edu/volunteer).

**Wee Care Center**

- Director: Mary Ellen Larsen
- Location: WE 101
- Telephone: 801-863-7266

The Wee Care Center is designed to meet the childcare needs of student parents of UVU. First priority is given to single parents who are eligible for Pell Grants. The Wee Care Center also accepts married student parents who are also eligible for Pell Grants. Quality care is provided to children ages six weeks to twelve years. All services are based on a sliding scale.

**Women’s Success Center**

- Director: Anne Wairepo, Ph.D.
- Office: LC 303
- Telephone: 801-863-3020

- Coordinator: Peggy Pasin
- Office: LC 303
- Telephone: 801-863-8080

- Administrative Support: Tera Prestwich
- Office: LC 303
- Telephone: 801-863-3010

The mission of the Women’s Success Center is to help women enter and graduate from UVU in order to improve their lives and the lives of their families, to increase financial stability, and to positively impact society.

**Writing Center**

See Tutoring and Academic Skills Services (TASS) in University College.

**Other Important Student Information**

**Student Right to Know**

Utah Valley University hosts information regarding the Student Right-to-Know and Campus Security Act of 1991 and the UVU Institutional Research and Information website. The Student Right-to-Know Act of 1991 requires all colleges and universities participating in Federal Student Aid Programs to disclose campus security policies, crime statistics,
information on students receiving athletically-related student aid, graduation rates, and other basic information about the institution. To access a copy of this report please visit www.uvu.edu/police.

Alcohol, Tobacco & Drugs

Utah Valley University, historically and at present, seeks to encourage and sustain an academic environment that promotes the health, safety, and welfare of all members of its community. In keeping with these objectives, alcoholic beverages, unlawful drugs, or other illegal substances shall not be consumed, used, carried, sold, or unlawfully manufactured on any property or in any building owned, leased, or rented by UVU, or at any activity sponsored by the University. (UVU Policy 157)

Any individual known to be in violation will be subject to University disciplinary action and to substantial legal sanctions pursuant to Local, County, State and Federal laws.

Smoking is prohibited in all University buildings and concourses. (UVU Policy 158)

All students can access a copy of the University Drug Policy online each semester at uvu.edu/studentconduct/students/drugalco.html. It explains the policy and University sanctions that may follow as a result of inappropriate drug and or alcohol use and the known health risks associated with inappropriate use.

Confidentiality of Records Policy

Utah Valley University is concerned for the confidentiality of student academic records, and a reasonable balance between the obligation of the institution for the instruction and welfare of the student and its responsibility to society. The University will make every effort to maintain student academic records in confidence by keeping information from individuals who are not authorized to receive it or who might use it for illegitimate purposes. The policy also reflects the efforts of the University to comply with the provisions of the Family Educational Rights and Privacy Act of 1974.

Upon presentation of appropriate identification and under circumstances which preclude alteration or mutilation of records, students will be able to inspect all records relating to themselves which are not considered by the University to be private records of University Personnel. A student is entitled to an explanation of any recorded data and may initiate action leading to a hearing, if necessary, to correct or expunge information he or she considers inaccurate or misleading.

Faculty and administrative officers who have a legitimate need to use student records will be allowed access to such records, as needed without prior permission from the student. A request from an educational institution to which the student has applied for admission, or from an institution or agency, from which the student is seeking financial assistance will be granted without written permission of the student. Similarly, data will be furnished to university accrediting bodies and governmental officials without written permission of the student.

No student information other than directory information will be given to any third party (except those mentioned above) without written consent of the student, and then only those records accessible to the student. The term party is construed to include parents, employers, government agencies, or any other person or organizations. Parents or guardians may have access to grade reports of a student’s activity if the parents establish to the satisfaction of the University that they are providing one-half or more of the student’s support. Court orders and subpoenas for records will be referred to and acted upon according to the directions of the Registrar. The University will make a reasonable effort to notify the student prior to release of information in response to subpoenas or court orders prior to actual submission of the material.

Directory information will be released to news media and to others upon request.

Directory information is defined as follows:

1. Name of student
2. Telephone number of student
3. Hometown city and state of student
4. Verification of current enrollment
5. Dates of enrollment
6. Degrees conferred, dates, major field of concentration and honors received

Students may request, at any time, through One Stop, the Admissions Office, and the Registrar’s Office of the University, that Directory information be withheld by submitting a Request to Prevent Disclosure of Directory Information form.

Civil Rights

Utah Valley University does not discriminate in recruitment or admission of students on the basis of race, color, religion, age, sex, national origin, or other legally impermissible factors.

Policy

Students who believe that they have been discriminated against or harassed should contact the Director of Student Conduct & Conflict Resolution, SL 201.

Note: Employees or students bringing a grievance against an employee who believe that they have been discriminated against or harassed should contact the Director of Human Resources Services or University Equity Officer.

Students should also consult the Student’s Rights and Responsibilities Code, which is printed in this catalog. See Student Rights and Responsibilities Section.

Procedure

1. Purpose
   The primary purpose of this procedure is to provide a remedy through which to seek redress for alleged acts of discrimination or harassment on the basis of race, color, religion, age, sex, national origin, pregnancy-related condition, disability, or veteran status. This grievance procedure is not applicable for situations for which other appeal and adjudication procedures are provided in State law or in which the University is without authority to act.

2. Stages of Redress
   a. Students grieving against another student or an employee who is grieving against a student must present the grievance in written form to the SCCR within 14 days (two calendar weeks) of the violation.
   b. If not satisfied with the response the grievant may appeal within 14 days (two calendar weeks) of receipt of the response to the Dean of Students.
3. Hearing and Decisions
At each of the levels noted above, the grievant shall be given the opportunity to be present and to be heard. Due process shall be accorded to all parties involved in the grievance, such as written notice of hearing dates and charge, right to counsel, right to present witnesses, and to present written statements. However, formal rules of evidence and trial procedure required in a court of law will not be applicable to such hearings. Decisions by the Campus Appeals Board shall be by a majority of the members present at the meeting. If an appeal is sent to the President, it must be accompanied by all documentation related to the prior hearings. The President’s decision is final.

Withdrawal
A grievance may be withdrawn by the grievant at any level without prejudice or record.

4. Reprisal
No reprisal of any kind shall be taken by or against any party or legitimate participant in the grievance procedure by reason of such participation.

5. Confidentiality
Appropriate confidentiality will be observed in all grievance procedures.

6. Informal Resolution of Grievance
Nothing contained herein shall be construed so as to limit in any way the ability of the grievant and the University to resolve any grievance, mutually and informally.

Peaceful Assembly

Policy
Free expression and peaceful assembly are rights guaranteed by the Constitution, subject to time, place and manner regulations. The University acknowledges this right for its students to assemble and express their views peacefully. However, to protect the health and safety of both participants and bystanders, peaceful assembly procedures follow.

Preparation Strategies
1. Plan your peaceful assemblies through the Dean of Students Office
2. Reserve an appropriate location from the list below
3. Schedule appropriate amplification, if necessary
4. Contact University Police for traffic and crowd control, if necessary
5. Post fliers and/or cardboard signs according to the University Signage Policy
6. Pay rental charges, if required
7. Commit to obey local, state and federal laws and University policies
8. Agree not to disrupt the educational process of the University

Prohibitions
1. Interference with the rights of others. Examples are harassment, intimidation and discrimination
2. Disruption of normal functions of the University
3. Damage to University property
4. Endangerment of the health or safety of self or others
5. Use of classrooms during academic hours
6. Refusal to vacate the premises upon official request by a University administrator or Law Enforcement personnel
7. Use of objects that might injure participants or bystanders; examples are wires, ropes, sticks and chains

Penalties
Prohibited acts are grounds for suspension or dismissal. Utah law provides that a student may be barred from campus for up to 14 days following an incident where the student violates University policy or state law. Refusal to vacate premises upon official request warrants immediate temporary suspension and arrest under the law.

Locations Appropriate For Peaceful Assembly
Locations are subject to availability; some locations may not be available at all times due to previously scheduled engagements.

Large assemblies (more than 50 people): Sorensen Student Center: Courtyard Lawn, North Parking Lot, Grand Ballroom, Theater, Centre Stage or meeting rooms; Athletic fields/ Lawn areas; Events Center: Arena, or Presidential Level.

Small assemblies (fewer than 50 people): Student Lounges or Student Center Meeting Rooms.

Resources
Reservations:
1. Student Life & Wellness and Sorensen Student Center Scheduling Office, SC 103, 801-863-8612
2. Events Center Scheduling, EC Concourse, 801-863-8767
3. All other Campus Scheduling, Planning Center, 801-863-8883

Amplification for the Student Life & Wellness, Sorensen Student Center and outdoor areas can occur between 11 a.m. and 1 p.m., Monday through Friday. Saturday hours are flexible. Adequate and effective amplification will be provided within limits necessary to protect the neighboring community. Amplification for small peaceful assembly sites is rarely needed. Contact: Media Services, LC 300, 801-863-8888 or Sorensen Student Center, SC 103, 801-863-8612.

Utah Safety Law
In 1965 the Utah State Legislature passed a law requiring every student, teacher, and visitor in any public or private school to wear industrial quality eye protection devices while participating in or observing the following: industrial educational activities involving hot or molten metals; operation of machinery or equipment that may throw particles of foreign matter into the eyes; heating, treating, tempering, or kiln firing of industrial materials; chemistry or physics laboratories when using caustic, explosive, or hot chemicals, liquids, or solids.
Tuition & Fees

Tuition & Fees

- **Bursar's Office/UVU Cashier**
  - Located: BA 108
  - Telephone: 801-863-7200
  - Fax: 801-863-8787
  - E-mail: bursar@uvu.edu
  - Hours:
    - Monday, Thursday, Friday 8 a.m. - 5 p.m.
    - Tuesday, Wednesday 8 a.m. - 6 p.m.

**Tuition & Fees Policy**

Tuition and student fees are established by the Utah State Board of Regents. University Policy regarding payment of tuition and fees states that all tuition and fees assessed at the time of registration are due and payable. This policy applies to all registration periods. Tuition and other charges are subject to change without notice. Please check current policies, procedures, tuition and fee tables, payment deadlines, and other important information at uvu.edu/cashier.

Early registration not covered by Financial Aid or paid in full by the published payment deadline may be purged for non-payment. After the published deadline, Utah Valley University will not drop courses for non-payment or non-attendance. Students who change their mind are responsible to drop their own classes or file a Leave of Absence. Filing a Leave of Absence does not absolve a student of any financial obligation to the University for tuition or other charges owing or repayment of a financial aid disbursement. Students must drop or withdraw by the published 100% Refund Date or they will be responsible to pay the total tuition and fees owed. For exact refund and drop deadlines, please refer to the Student Timetable at uvu.edu/schedule.

Students who default on all or any portion of their tuition and fees will be suspended from further registration and records activity at UVU until their accounts are paid in full. The registration and records activity suspension will be carried forward to perpetuity until all past-due tuition and fees are paid in full.

Past due tuition accounts may be reported to a Nationwide Credit Reporting Agency, and/or turned over to an outside collection agency for collection.

Tuition Surcharge Policy

Students are encouraged to avoid accumulating credit hours beyond those needed to successfully complete their identified program of study. A student may be charged the excess credit hour surcharge for credit hours in excess of 125% of a student’s program of study. The surcharge amount for resident students is double the current year’s resident tuition rates for the number of credit hours taken. Non-resident students will continue to pay non-resident tuition.

For further information regarding this policy, please contact your advisor or the Graduation/Transfer Services Office.

Student Financial Responsibility

When students enroll in a course, they are reserving a seat in the class. If a student decides not to take a class, it is the responsibility of the student to drop the course before the 100% Refund Deadline. Dropping the class before this deadline removes the charges from the student’s account and allows other students to register. Charges for classes dropped after the 100% Refund Period deadlines will remain owing and will not be credited back to the student’s account balance.

Before students can register for classes they must review and update their address and other demographic information, then agree to the financial obligations associated with attending. It is important that students carefully update their information as the University periodically sends bills, refund checks, and other important correspondence through the mail.

In order to register for classes, students must agree to the following:

**Financial Responsibility Agreement**

I understand I will not be receiving paper billing statements from Utah Valley University (UVU) for tuition and fees, and I acknowledge that it is my responsibility to check my UVLink student account.

I understand it is my responsibility to assume any unpaid financial obligations that my third-party sponsor (private employer, military, government agency, etc.) fails to pay by the end of the term.

**Dropping/Withdrawing from Courses**

I understand I am responsible for dropping courses I do not plan to attend. Courses must be dropped during the 100% refund period or tuition and fees will be assessed.

**Agreement to Pay Tuition Charges and Fees**

In consideration of Utah Valley University (UVU) allowing me to register for courses, thus incurring the attendant costs to UVU, both direct and indirect, I promise to pay (UVU), tuition and fees assessed to me for courses for which I have registered, by the published payment due date for each semester. I hereby agree to pay a late payment fee of $200.00 if my account balance is not paid by the published payment due date. These dates are listed in the student timetable: uvu.edu/schedule. I understand if I am unable to pay my tuition in full by the published payment due date, I have the option to enroll in a tuition payment plan.
Introduction

If my tuition account remains unpaid beyond the end of the semester for which the charges were incurred, interest of 1.5% per month will begin to accrue on the unpaid balance. Holds will be placed on my records at UVU prohibiting me from further registration activity, including adding/dropping classes, receiving official transcripts of my grades, or other records of UVU, until the account has been paid in full. In the event I default on this agreement and it becomes necessary to place this account for collection, I also agree to pay collection fees, not to exceed 50% of the original principal balance, plus any court costs and/or attorney fees resulting from the enforcement of this agreement. Any collection costs stated above are in addition to the principal, fees and interest due on my account. Additionally, I agree that UVU shall have the right to offset any monies due to me from UVU against the balance due on any past due tuition account.

I understand that the principal amount is calculated based on my class-load each semester at UVU.

Tuition Refund Policy

The tuition refund policy is established by the Utah State Board of Regents and amended by each college or university to fit their programs. Utah Valley University refunds to students who withdraw from school or drop classes as follows:

Semester:

- Through the 100% refund date published on the Student Timetable...100%
- After the 100% refund date published on the student Timetable...0%

Exact dates for semester, block, and weekend classes can be found at uvu.edu/schedule.

Students must drop classes or completely withdraw by the published 100% Refund Deadline in order to have the charges removed from their account. Students who withdraw after that date will not receive a refund; if they have not paid, they will continue to owe the University for these charges and will be subject to collections procedures if left unpaid.

Changes in enrollment may affect Financial Aid eligibility and amounts received. Financial Aid awards may be pulled back when dropping courses, thus increasing the amount owed.

A Petition to the Refund Policy Form can be obtained online through UVLink or from the Office of the Registrar.

Special Lab & Course Fees

Some classes require fees in addition to standard tuition and fees. The online class schedule indicates such lab, course, and materials fees.

Late Payment Fee (Late Fee)

The Late Payment Fee is assessed each Wednesday night throughout the semester beginning the first week of classes. Late fees are assessed on ALL unpaid account balances at 20%, not to exceed $200.00 per semester, including accounts awaiting Financial Aid.

Late Registration Fee (Late Add Fee)

Special approvals are required to register late for a class. The length of time for each late registration period is relative to each part of term and is governed by the Student Timetable. Students who add classes during the late registration period must finalize the process by paying for appropriate late registration fees in addition to their tuition/fees according to the published dates on the Semester Student Timetable.

Payment Options

At the Cashier Windows or One Stop

- Cash
- Check
- PIN-based debit

Online through Tuition Payment Plus

- Electronic Checks

Electronic Check payments are free of charge and can be made online only with the bank routing number and account number. Payments can be made from a personal checking or savings account. Corporate checks, credit card checks, home equity, traveler’s cheques, etc. are not accepted. Electronic check payments are processed through Tuition Payment PLUS, accessed through UV Link. Any check returned by the payer’s bank for any reason will be considered a “dishonored” check and all penalties for a “dishonored” check will be applicable.

- Credit Cards

Payments with credit cards are accepted online only and will be charged a non-refundable service fee of 2.75% (minimum $3.00). We accept most major credit cards including VISA, MasterCard, American Express, and Discover.

Tuition Payment Plan

The tuition payment plan allows students to pay for their tuition and fees over the course of the semester in three payment installments with a minimal fee to enroll. If students enroll before the published Payment Deadline dates, their classes will not be dropped for nonpayment. In addition, enrollment in the payment plan before the Late Fee Deadline will prevent the 20% late fee from being assessed. More information about the payment plan can be found at uvu.edu/collections/tuitionpaymentplan/index.html.

Check Cashing Procedures
The University does not accept two-party checks. Checks written to UVU must have the student’s UV ID number, the payer’s address, and payer’s phone number on the face of the check. Two forms of identification are required at all campus check-cashing locations.

Checks made for an amount larger than the total tuition and fees due will not be accepted. Checks written for up to $5 over the amount of the purchase may be cashed at the Bookstore. All other campus locations accept checks for amount of purchase (or payment) only.

**Dishonored Checks**

A dishonored check is any check returned by the payer’s bank for any reason, including, but not limited to, insufficient funds, no account, bad account, stop payment, unauthorized account. Checks written that later have a “stop payment” placed upon them will be considered as “dishonored”.

A service charge will be assessed on each dishonored check unless the payer can document in writing from the bank that it was a bank error.

**Third Party/Sponsored Payments**

Students are responsible for ensuring that appropriate documentation for a third-party or sponsored payment is submitted to the Accounts Receivable Office prior to the start of classes each semester. If paperwork cannot be submitted to the Accounts Receivable Office by the published Payment Deadline, students should consider enrolling in the Tuition Payment Plan to avoid having their classes purged for nonpayment.

Students who are sponsored by a third-party must comply with the terms of the sponsor agreement and verify that all tuition and fees charges are paid by the sponsor. Any balance not paid by the sponsor remains the student responsibility and is subject to all payment deadlines and late fees.

If a student adjusts their registration schedule after their authorization has been received by UVU, it is the student's responsibility to verify that any course or tuition and fee changes will be paid by the sponsor and that these changes are reported to the Accounts Receivable office for proper processing.

If the sponsor does not provide funding by the end of the semester, the student will be responsible for payment of tuition and fees.

### 2015-16 Undergraduate Tuition and General Fee Schedule

<table>
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**Equal Tuition Payment for 12.0-18.0 credit hours**

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### Course Catalog 2015-2016

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For each credit hour over 25, $180 per credit hour will be assessed for residents and $560 per credit hours for non-residents

See [Graduate Studies](#) for a breakdown of graduate studies' tuition and fees

<table>
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<td>Readmit Application Fee</td>
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<td>Readmit Late Application Fee (After deadline of August 1 for fall and December 1 for spring)</td>
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<td>International Student Admissions Application Fee</td>
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<td>International Student Semester Fee</td>
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<tr>
<td>Late Graduation Application Fee</td>
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<tr>
<td>Special Lab and Course Fees</td>
<td>(see online class schedule)</td>
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<tr>
<td>Challenge Credit Fee</td>
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<tr>
<td>Challenge Credit Form</td>
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<tr>
<td>Late Registration Fee</td>
<td>$10 to $30 depending on late registration date</td>
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</table>

For each credit hour over 25:

- **Resident**: $180
- **Non-resident**: $560
Introduction

Late Tuition Payment Fee
Assessed each Wednesday night on ALL UNPAID ACCOUNT BALANCES, including 2nd block, at 20%, not to exceed $200

University Police

Crime Awareness & University Police

The safety and well-being of our students, faculty, and staff are a high priority at Utah Valley University.

Although the UVU campus is a relatively safe place, we are not immune to those problems that beset all urban citizens, including problems related to public safety and law enforcement.

The Utah Valley University Police Department (UVUPD), a police force fully accredited by the State of Utah, is charged with protecting your safety and property on our campuses. The following outlines the services, policies, and programs which help us to meet that challenge.

The full support and cooperation of the entire University community is required to allow for the pursuit of knowledge in a safe and secure environment.

Utah Valley University police provide several important services to a diverse University community consisting of approximately 32,670 students and supporting faculty and staff by providing 24 hour-a-day police patrol and security protection for the benefit of all University properties, employees, students and visitors on campus.

Utah Valley University police officers have the same full police powers and responsibilities as do officers in other Utah law enforcement agencies.

All UVUPD police officers are trained at Utah State Police Academies and each year receive a minimum of forty (40) hours of in-service and specialized training in crime prevention and awareness, first aid, firearms, defensive tactics, legal updates, evidence gathering, traffic control and traffic accident investigation, follow-up on criminal and civil investigations, etc.

Several patrol methods are used to secure and patrol University properties, including uniformed and plain clothes, vehicle, foot, and Segway patrol.

University police officers are also responsible for providing a full range of public safety services to the University community, including the handling of all crime reports, investigations, traffic accidents, enforcement of laws regulating underage drinking, the use of controlled substances, weapons violations, and enforcement of all applicable State, County and local laws, in addition to all other incidents such as medical and fire emergencies which require police assistance.

University police officers prepare and submit reports of incidents brought to their attention. As a courtesy, they share information on arrests and serious crimes with any law enforcement agency having a legitimate need to know.

The serial numbers of all vehicles, office equipment, and personal property stolen from our University campuses are reported nationwide through the National Crime Information Center (NCIC).

UVUPD encourages the prompt and accurate reporting of crimes to our office by victims, witnesses or any other persons having knowledge that a crime has been committed on our campus.

The UVU Dispatch office is staffed 24 hours a day, 7 days a week, 365 days a year and can be reached by calling 801-863-5555 or dialing 9-1-1.

The University Police office is located in Gunther Trades 331.

There are emergency telephones located in each Orem Campus elevator. When activated these phones will automatically put you in direct contact with the elevator company.

Crime Awareness/Crime Prevention

An important function of UVUPD is making our campus users aware of how to avoid becoming a victim of crime.

If requested, one of our University police officers will talk to groups regarding Crime Awareness/Crime Prevention.

UVUPD officers will also provide escort services to those who desire assistance in safely getting to their car.

CAMPUS Safety Awareness Programs

The Chief of Police/Director of Public Safety, the University Fire Marshal and other staff members are involved in the University Safety Committee which makes periodic security and safety surveys of campus facilities.

Officer Friendly Program

Several times throughout the school year our University police officers will make an Officer Friendly presentation to the University Child Care Center emphasizing “police are our friends”. Child safety is stressed.
Introduction

Grounds & Building Safety

The University Facilities and Planning/Plant Operations Departments maintain college buildings and grounds with a concern for safety and security. These facilities are inspected regularly; plant staff attempt to make prompt repairs and respond 24 hours-a-day to reports of potential safety and security hazards, such as broken windows and locks. The University Police Department assists maintenance personnel by reporting potential safety and security hazards. Students, as well as employees, are encouraged to call Facilities Planning and Maintenance (801-863-8130) to report any hazard.

Representatives from University Police/Department of Public Safety and Facilities Planning routinely inspect the entire campus to review lighting and environmental safety concerns.

Crime Statistics for the University Community

The University Police Department submits a monthly Uniform Crime Report to the Federal Bureau of Investigation (FBI) through the Utah Bureau of Criminal Identification. UCR data is available online through BCI at publicsafety.utah.gov/bci.

UVU also submits crime data to the Department of Education. For a more detailed breakdown, see www.uvu.edu/police.

A glossary of offenses is available at ope.ed.gov/security/index.aspx.

OFF-CAMPUS STUDENT RESIDENCES

There are numerous privately owned rental units off-campus in which students reside. The University encourages students to locate and investigate off-campus living units whose owners have agreed to exercise reasonable efforts to maintain rental facilities in good repair including properly functioning locks on doors and windows. Some of the large apartment complexes provide their own night security watch.

THE UNIVERSITY CANNOT AND DOES NOT GUARANTEE OR REPRESENT THAT OWNERS AND MANAGERS ALWAYS MEET OUR SUGGESTED PHYSICAL CRITERIA. Thus, students are individually responsible to carefully choose a safe and secure off-campus apartment.

Crime prevention and crime awareness programs emphasizing security and what students and employees can do to help themselves from becoming a victim are provided free, upon request, by contacting local police agencies or the University Police Department, telephone 801-863-5555.

The University Police Department is responsible for policing the Utah Valley University campuses. The respective city police departments are responsible to police the surrounding areas where our students may choose to live.

The University Police Department has a mutual working relationship with all Local, County, Federal and any other State law enforcement agencies in Utah County (Utah Valley region), providing each department as requested, or as becomes necessary, with patrol assistance, information exchange, and back up.

Skateboards, Roller Blades, Hover Boards, Roller Skates, Bicycles, & Motorcycles

Skateboards, roller blades, hover boards, roller skates, and bicycles are allowed on campus exterior locations for transportation only. All Utah State traffic laws and University administrative rules regarding the use of such devices must be obeyed at all times. NO stunts or tricks are allowed. Motorcycles and like devices shall not be operated on sidewalks without the approval of the Chief of Police or the Facilities Director, unless it is a university owned vehicle responding to an emergency situation.

Sanctions

Violations of this policy may be enforced against students, employees and visitors of Utah Valley University by notices or citations which may be processed and settled through the police office or court of jurisdiction whichever is appropriate.

Other Facilities Utilized by UVU

UVU has satellite offices located in several communities throughout Utah such as: Spanish Fork, and Heber City. University Police provide law enforcement and crime prevention services for these areas as needed. Routine patrol coverage is by the appropriate local law enforcement agencies.

Please feel free to direct any comments and or questions that you may feel have not been answered in this document to the office of the Director of Public Safety.
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College of Aviation and Public Services

The College of Aviation & Public Services (CAPS) provides rigorous professional training and educational opportunities that engage students and advance aviation, criminal justice, forensic science, law enforcement, emergency services, and other related public service professions. CAPS embraces student and community engaged learning that is at the core of UVU’s mission. CAPS goal is to provide professionally competent individuals who will not only provide communities within Utah with a population of highly trained people, but also leaders in their communities.

- **Interim Dean:** Tom Sturtevant  
  - Office: HB 202a  
  - Telephone: 801-863-7817  
  - Email: Tom.sturtevant@uvu.edu

- **Associate Dean:** TBD  
  - Office: HB 202c  
  - Telephone: 801-863-7518  
  - Email: TBD

Degrees Offered

**Bachelor of Science**

Aviation Science
- Aviation Administration  
- Professional Pilot

Criminal Justice with an option in:
- Corrections  
- Criminal Law  
- Law Enforcement

Emergency Services Administration
- Emergency Care  
- Emergency Management  
- Forensic Science

**Associate in Science/Arts**

Aviation Science  
Criminal Justice  
Emergency Services

**Associate in Applied Science**

Aviation Science  
Emergency Services
- Fire Officer  
- Firefighter/Emergency Care

**Wildland Fire Management**

**Certificate of Completion**

- Firefighter Recruit Candidate  
- Paramedic

**Certificate of Proficiency**

Law Enforcement Academy

**Minor**

- Criminal Justice  
- Forensic Science  
- Programs
Programs

For program descriptions, see individual departmental sections in this catalog or on the department webpages.

Aviation Science

- **Department Chair:** Jim Green  
  - Office: HB 201d  
  - Telephone: 801-863-7819  
  - Email: greenji@uvu.edu  
  - **Administrative Support:** Claire Downing  
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    - Telephone: 801-863-7816  
    - Email: downincl@uvu.edu  

- **Academic Advisor:**  
  - Dianna Bunker  
    - Office: HB 209  
    - Telephone: 801-863-7851  
    - Email: Dianna.Bunker@uvu.edu  
  - Theodore Okawa  
    - Office: HA 206  
    - Telephone: 801-863-7837  
    - Email: Okawath@uvu.edu  
  - **Advisor Generalist:**  
    - Marilyn Riddle  
      - Office: HB 209d  
      - Telephone: 801-863-7852  
      - Email: Riddlemr@uvu.edu  
    - Ken Sink  
      - Office: HB 208  
      - Telephone: 801-863-7771  
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The mission of UVU Aviation Science is to provide a superior educational experience which prepares students for successful careers and promotes responsible citizenship in a global aviation environment. Degrees are offered through technology-enhanced traditional classroom and innovative online delivery methods. Simulations and flight training are integrated with scholarly work to create a complete and well-balanced aeronautics program. The curriculum is developed through ties with industry to incorporate changing standards in technology and procedural advances. Our student-centered approach encourages leadership and engaged life-long learning. We emphasize public awareness and safety in aviation as our commitment to the community at large.

Criminal Justice/Law Enforcement

- **Department Chair:** Brent Bullock  
  - Office: EN 115b  
  - Telephone: 801-863-8139  
  - Email: BrentB@uvu.edu  
  - **Administrative Support:** Melissa Tippins  
    - Office: EN 101  
    - Telephone: 801-863-7230  
    - Email: mtippins@uvu.edu  
  - **Director Police Academy:** Steve DeMille  
    - Office: EN 114a  
    - Telephone: 801-863-8062  
    - Email: demillst@uvu.edu  
  - **Administrative Support:** Patrice Bolen  
    - Office: EN 114  
    - Telephone: 801-863-6156  
    - Email: Patrice.bolen@uvu.edu  
  - **Advisor:** Melissa Noyes
The mission of the Criminal Justice Department is to provide students with a complete understanding of both the theory and practice of the Criminal Justice system, and to provide the following associate degrees: Bachelor Degrees in Criminal Justice and Forensic Science, Associate in Science and Associate in Art Degrees in Criminal Justice, and a Peace Officer Standard and Training (POST) certificate. The Criminal Justice Department endeavors to expose students to crucial thinking skills, engaged learning and effective communication; encourage creative problem solving skills that results from the ability to acquire and evaluate information; provide opportunities to navigate advanced technological systems combining theory with extensive hands-on practice using equipment currently used by professional practitioners; provide the opportunity for personal and social growth and to become aware of the diverse cultural, historical, economic and political forces that shape our society.

Emergency Services

- **Department Chair:** Gary Noll  
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  - Telephone: 801-863-7741  
  - Email: Gary.Noll@uvu.edu

- **Administrative Support:** Katrina Barlow  
  - Office: FS 213  
  - Telephone: 801-863-7753  
  - Email: queridka@uvu.edu

- **Advisor:** Bonnie Lamb  
  - Office: FS 214  
  - Telephone: 801-863-7793  
  - Email: bonnie.fehr@uvu.edu

The mission of the department of Emergency Services at Utah Valley University is to support emergency services, crisis and disaster relief through excellence and innovation in education, training, scholarship, and service.

Utah Fire & Rescue Academy (UFRA)

- **Director:** Hugh Connor  
  - Office: FS 205c  
  - Telephone: 801-863-7706  
  - Email: connorhu@uvu.edu

- **Administrative Support:** Candice Hunsaker  
  - Office: FS 205  
  - Telephone: 801-863-7701  
  - Email: Candice.hunsaker@uvu.edu

Utah Fire & Rescue Academy (UFRA) mission is to educate, train, validate, and support the fire and emergency services at the highest quality level possible.

Institute for Emergency Services & Homeland Security

- Under the direction of Jeff Maxfield  
  - Office: FS 120a  
  - Telephone: 801-863-7736  
  - Email: JMaxfield@uvu.edu

The mission of the Institute of Emergency Services and Homeland Security at Utah Valley University is to support preparedness, resiliency, and security disciplines through excellence and innovation in education, training, and scholarly research.

The Institute can collaborate with other institutions of higher education, as well as local, regional, national agencies, and private sector interests, in order to reach all target audiences identified by the Department of Homeland Security, as well as fill a much needed niche in higher education. Collaboration will allow us to work with other dimensions of a broader Homeland Security framework to plan for, create and implement local, regional and possibly national educational and training programs designed to prepare people with responsibilities for prevention, initial response, mitigation, and recovery of local, regional, and/or national security incidents.
College of Humanities and Social Sciences

Degrees Offered

Bachelor of Arts/Science

Behavioral Science
- Anthropology
- Family Studies
- Psychology
- Sociology

Communication
- Journalism
- Public Relations
- Speech Communication

Deaf Studies
- General Deaf Studies
- Interpreting

English
- Creative Writing
- Literary Studies
- Writing Studies

History

Integrated Studies
- American Sign Language
- Anthropology
- Art History
- Communication
• English
• Ethics
• French
• German
• Graphic Design
• History
• Humanities
• Philosophy
• Photography
• Social Sciences
• Sociology
• Spanish

Philosophy
Political Science

• American Government
• World Politics
• Political Philosophy/Public Law

Secondary Education

• ASL and Deaf Studies
• English
• History
• Spanish

Spanish

Bachelor of Social Work

Associate in Arts/Science

Behavioral Science
Communication
English
English with an Emphasis in Technical Communication
History and Political Science
Humanities
Philosophy

Certificate of Proficiency

Ethics
Licensed Substance Abuse Counseling
Technical Communication

Minor

Chinese Commerce
Chinese Language
Chinese Studies
Communication
Constitutional Studies
English Creative Writing
English Education
English Literary Studies
Ethics
French
German
History
Humanities
Languages
Latin American Studies
Philosophy
Political Science
Portuguese
Russian Studies
Spanish
Technical Communication
Writing Studies
Colleges and Schools

Programs

Behavioral Science

- **Department Chair:** Kris Doty
- **Office:** LA 012
- **Telephone:** 801-863-8083, 801-863-6211

Academic Advising Appointments: [uvu.edu/besc/bescacademicadvising.html](http://uvu.edu/besc/bescacademicadvising.html)

The mission of the Behavioral Science Department is to prepare students for careers in the fields of anthropology, family studies, psychology, social work, sociology, and other related professions. Finding solutions to human problems involves engagement with the community and the ability to apply academic theories to the real world. Behavioral Science students learn academic rigor in writing, critical thinking, analysis, and research. A multicultural perspective and respect for the range of individual differences are central to the department’s mission. Insight, skill acquisition, and personal application are also important aspects of a student’s exposure to the behavioral sciences. Classes are frequently taught using experiential methods and collaborative assignments.

Communication

- **Department Chair:** Janet Colvin
- **Office:** LC 240
- **Telephone:** 801-863-7282

The mission of the Department of Communication is to prepare students to execute critical thinking skills and to help students prepare for careers that require expertise in oral, written, and/or mediated communications. The department offers programs of study leading to Associate in Arts/Science and Bachelor of Arts/Science degrees with concentrations in Journalism, Public Relations, or Speech Communication. Communication is also available as an emphasis for a BA or BS in Integrated Studies.

Programs of study in Communication at UVU offer a balance of analytic and applied approaches to study in the field. The department offers an expanding menu of beginning and advanced courses in interpersonal communication, intercultural communication, international communication, organizational communication and journalism. Encouraging student internships, and working closely with Student Media and other units on campus, the curriculum balances traditional, academic-style learning with applied, practical approaches to study in the field.

Note: Communication students in the journalism emphasis are required to have laptop computers.

English & Literature

- **Department Chair:** Stephen Gibson
- **Office:** LA 126e
- **Telephone:** 801-863-6287
- **Assistant Chair:** Rick McDonald
- **Office:** LA 126f
- **Telephone:** 801-863-8365

The Department of English and Literature provides an innovative and stimulating learning environment to help students broaden their cultural experiences, deepen and refine their abilities in critical thinking, and improve their skills in written and verbal communication. By offering courses, programs and activities in literature, creative writing, college-level composition, and technical communication, the department aims to foster an invigorating and diverse learning community that changes the ways students envision themselves and the world, thus making them more thoughtful and productive contributors to their communities. Students pursuing English studies gain invaluable workplace skills: they think more critically and creatively; they communicate clearly and logically; they comprehend the ways language defines and affects behavior, and they come to understand the complexity of human relations in various cultural and historical contexts.

History & Political Science

- **Department Chair:** David Connelly
- **Office:** LA 030f
- **Telephone:** 801-863-8642

In keeping with the University’s mission, the History and Political Science department is dedicated to providing students with a broad range of opportunities and experiences in general-education and discipline-specific courses in history and political science. Classes are taught in ways that foster critical thinking and analysis of complex issues and materials through lecture, reading, class discussion, and the development of written- and oral-presentation skills. The History and Political Science department strives to provide a reflective, multicultural, and international perspective.

Integrated Studies

- **Department Chair:** Wayne Hanewicz
The individualized nature of the Integrated Studies degree is attractive to students with multiple interests who want to develop skills that are relevant to a variety of careers. Students integrate course work in emphases such as science, business, health, literature, languages, communication, philosophy, behavioral science, social science and the arts. Emphases from computer science and information systems, accounting, technology and trades and physical education are also offered as part of this degree.

Interdisciplinary Studies Program

- **Director:** John Goshert  
  - Office: CB 410f  
  - Telephone: 801-863-6288

- **Administrative Support:** Mark Olson  
  - Office: LI 508  
  - Telephone: 801-863-5888

Interdisciplinary Studies provides a framework for supporting innovative, boundary-crossing inquiry among students and faculty across campus as well as in wider intellectual and social communities. IDST coordinates existing multidisciplinary minor and emphasis programs and provides guidance and support as new programs are envisioned and established. IDST programs promote instructional excellence and offer a variety of courses and events that enhance the overall academic experience at Utah Valley University.

Interdisciplinary Minor Programs

- American Indian Studies
- American Studies
- Cinema Studies
- Classical Studies
- Deaf Studies
- Environmental Studies
- Gender Studies
- Peace and Justice Studies
- Religious Studies

Languages

- **Department Chair:** Jeff Packer  
  - Office: LA 003a  
  - Telephone: 801-863-8626

The Department of Languages promotes global awareness, intercultural understanding and international insights by providing instruction in eight languages (American Sign Language, Chinese, German, French, Japanese, Portuguese, Russian and Spanish). The lower division courses (1000-2000 level) fulfill Associate in Arts and Bachelor of Arts program requirements; the upper division courses (3000-4000 level) apply to degree program requirements, including the Deaf Studies, ASL and Deaf Studies Education, Spanish and Spanish Education degrees, the Integrated Studies degree (emphasis in Spanish, French, or ASL), and the minors in Deaf Studies, French, German, Languages and Spanish. Language instruction is enhanced by excellent, caring instructors who are supported by a multimedia language lab focused on cutting-edge technology in the delivery of instruction.

Philosophy & Humanities

- **Department Chair:** Shannon Mussett  
  - Office: LA 121  
  - Telephone: 801-863-6264

- **Associate Chair:** Pierre Lamarche  
  - Office: LA 121  
  - Telephone: 801-863-8214

- **Director of Humanities:** Leslie Simon  
  - Office: LA 121  
  - Telephone: 801-863-8128
Colleges and Schools

The Department of Philosophy and Humanities provides critical study of the creative and intellectual underpinnings of the liberal arts curriculum that connects students to the past, present and future. Students will understand and be able to apply foundational philosophical concepts in all major disciplines, including concepts from multicultural, historical, artistic and values-conscious belief systems. The department is dedicated to enhancing critical thinking and writing skills to support student occupational and academic endeavors.

Martin Luther King, Jr. Commemoration Advisory Board

The Martin Luther King, Jr. Commemoration is an interdisciplinary conference dedicated to researching and promoting human rights through the memory and commitment of the college to the dream of Dr. King. This annual event provides a forum for students and faculty alike, to discuss ideas, raise questions and attempt to understand the significance of civil rights issues past, present, and future. The Coordinator and the Advisory Board oversees the organization, planning and evaluation of the Commemoration. Please contact Dr. William W. Cobb, Jr., Professor of History, with further questions, William.Cobb@uvu.edu.

College of Science and Health

College of Science and Health

The College of Science & Health is committed to providing courses and programs to meet community needs for major and professional education, service courses for majors outside the College, general and transfer education, skill development, personal enhancement and career enhancement. The faculty of the College are committed to providing an atmosphere which encourages innovation and opportunities for students and faculty to attain their personal and professional goals. Recognizing students as the priority and focus of the College, College faculty are committed to providing high quality learning experiences in an environment in which students can actively participate in learning, raise questions about assumptions, and develop a scholarly approach to the sciences and health professions. All programs in the College emphasize critical thinking and lifelong learning.

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- **Associate Dean:** Jason Slack
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  - Email: Jason.Slack@uvu.edu

- **Assistant Dean:** Jim Murphy
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  - Telephone: 801-863-5511
  - Email: JMurphy@uvu.edu

- **Advisory Council:**
  - Bill Evenson, Chair; Brent Bargeron; Virginia Bayer; Carl Black; Greg Craner; Daniel Fairbanks; David Fairbanks; Tami Goetz; Daren Heaton; Tracy Hill; Daniel Horns; Duane Jeffery; Mike Lee; Sam Rushforth; Nancy Smith; Lucille Stoddard; Jeffery Taylor; Richard Tolman; John Unice; Carol Walker; Scott Woodward.

Degrees Offered

- **Master of Science**
  - Nursing

- **Bachelor of Science**
  - Biology
  - Biology Education
  - Biotechnology
  - Botany
Chemistry
• Forensic Chemistry
• Professional Chemistry
• Chemistry Education

Dental Hygiene
• Business
• Education
• Integrative Practice
• Public Health

Earth Science
• Environmental Management
• Geology

Earth Science Education
Mathematics
• Actuarial Science
• Applied Mathematics
• Mathematics

Mathematics Education
Nursing
Physical Education and Recreation
• Exercise Science
• Outdoor Recreation Management
• Physical Education Teacher Education

Physics
Physics Education
Public and Community Health
• Community Health Education
• Health Services Administration
• School Health Education

Associate in Arts/Science
Biology
Community Health
Mathematics
Nursing
Physical Education-Recreation
Physical Science

Associate in Applied Science

Dental Hygiene

Certificate of Completion
Water and Wastewater Operations

Minor
Biology
Chemistry
Community Health Education
Earth Science
Geography
Mathematics
Outdoor Recreation
Physical Education
Physics
School Health Education

Programs
Biology

• **Department Chair:** Virginia Bayer
  • Office: SB 243e
  • Telephone: 801-863-8605
  • Email: bayervi@uvu.edu

• **Administrative Support:** Alana Korstanje
  • Office: SB 243
  • Telephone: 801-863-8511
  • Email: korstaal@uvu.edu

Degrees in Biology prepare students for a wide variety of careers, including health professions, agriculture science, biotechnology, environmental science, and secondary education. Employers include hospitals, government agencies, laboratories, private industries, private consulting firms, and schools. Many biology graduates continue their studies with graduate work in various fields of biology, medical school, and dental school.

Chemistry

• **Department Chair:** Fern Caka
  • Office: PS 230
  • Telephone: 801-863-8581
  • Email: FernC@uvu.edu

• **Administrative Support:** Kellie Hancock
  • Office: PS Reception
  • Telephone: 801-863-6295
  • Email: hancocke@uvu.edu

Chemistry is often called the “central science” because principles learned in chemistry are used in physics, engineering, industry, geology, biology, environmental science, medicine, and other health sciences. Chemistry graduates pursue careers in various laboratories (government, medical, etc.), research and development, biotechnology, and forensics. Many chemistry graduates continue their studies with graduate work in various fields of chemistry, dental school, pharmacy school, and medical school.

Dental Hygiene

• **Department Chair:** George Veit
  • Office: HP 142d
  • Telephone: 801-863-7536
  • Email: veitge@uvu.edu

• **Administrative Support:** Joyce Henderson
  • Office: HP 142
  • Telephone: 801-863-7536
  • Email: henderjo@uvu.edu

The primary responsibility of the Dental Hygienist is the prevention of oral health problems. The dental hygienist is a licensed professional and a member of the dental team, responsible for providing preventative and therapeutic care and education for the control of oral disease. Providing dental hygiene care requires application of biological and psychosocial concepts of health and human functioning.

Earth Science

• **Department Chair:** Michael Bunds
  • Office: PS 218
  • Telephone: 801-863-6306
  • Email: Michael.Bunds@uvu.edu

• **Administrative Support:** Maria Wilkey
  • Office: PS Reception
  • Telephone: 801-863-6964
  • Email: Maria.Wilkey@uvu.edu

• **Program Director, Environmental Management:** Jim Callison
  • Office: PS 216
  • Telephone: 801-863-8679
  • Email: JCallison@uvu.edu
Earth scientists help society make use of natural resources while protecting environmental quality for future generations. The degree programs in Earth Science prepare students for careers in water resources, treatment of drinking and waste water, cleanup of polluted soil and groundwater, engineering geology, and oil and mineral exploration. Many students pursue graduate programs in geology, environmental science, and law.

Exercise Science & Outdoor Recreation

- **Department Chair:** Mike Bohne
  - Office: PE 147k
  - Telephone: 801-863-8439
  - Email: Michael.Bohne@uvu.edu

- **Administrative Support:** Corrin Doyl
  - Office: PE 147
  - Telephone: 801-863-6318
  - Email: CDoyl@uvu.edu

Graduates from Exercise Science & Outdoor Recreation find productive careers in several different areas. A majority of Exercise Science students pursue graduate programs in physical therapy, exercise physiology, biomechanics, physician’s assistant, and occupational therapy. Outdoor Recreation graduates are prepared to work in fields such as park interpretation, resort recreation, corporate recreation management, and recreation outdoor leadership. Physical Education Teacher Education graduates are employed as teachers at the K-12 level.

Mathematics

- **Department Chair:** Joseph Hwang
  - Office: LA 121g
  - Telephone: 801-863-8625
  - Email: hwangjo@uvu.edu

- **Administrative Support:** Celena Patten
  - Office: LA 109
  - Telephone: 801-863-8650
  - Email: pattence@uvu.edu

Mathematicians find employment in many different areas that require strong reasoning ability and communication skills. Mathematicians teach, work in research and development laboratories, become computer programmers or system analysts, and decipher encryption systems. Each new technological breakthrough creates exciting new applications of mathematics, giving rise to an ever-increasing array of employment opportunities for mathematicians.

Nursing

- **Department Chair:** Dale Maughan
  - Office: HP 203x
  - Telephone: 801-863-7411
  - Email: Dale.Maughan@uvu.edu

- **Administrative Support:** TBD
  - Office: HP 203
  - Telephone: 801-863-8211
  - Email: TBD

- **Administrative Support:** Diane Evans
  - Office: HP 203
  - Telephone: 801-863-8199
  - Email: DianeE@uvu.edu

The UVU Department of Nursing provides quality nursing education, helping students to cultivate knowledge, sound clinical judgment, and a foundation for lifelong learning, as they progress toward becoming competent, caring nurses in a complex and changing healthcare environment. Students learn about patient-centered care, inquiry and reasoning skills, nursing roles and collaboration, and quality and safety applied to the nursing profession. Nurses work in a variety of settings, including hospitals, military facilities, home health care programs, and schools.

Physics

- **Department Chair:** Phil Matheson
  - Office: PS 207
  - Telephone: 801-863-7161
  - Email: Phil.Matheson@uvu.edu
Several career paths are available to physics graduates, including high-tech industry, research, medical physics, technical writing, and computer science. Many physics students pursue graduate degrees in physics or related fields (engineering, patent law, etc.). Physics is also a common pre-med degree. The UVU Physics degree requirements may be tailored to suit a student's particular interests. For example, a student wishing to attend medical school may focus elective credits on biology and chemistry.

Public & Community Health

- **Department Chair:** Lynley Rowan
  - Office: HP 101f
  - Telephone: 801-863-6193
  - Email: Lynley.Rowan@uvu.edu

- **Administrative Support:** Kristie Dockstader
  - Office: HP 101
  - Telephone: 801-863-8651
  - Email: dockstkr@uvu.edu

Public and Community Health graduates pursue a variety of careers, including health education, health promotion, and health services administration. Graduates are qualified to work in government health agencies and in private-sector settings, such as public health departments, health maintenance organizations, hospitals, clinics, and specialized health agencies such as the American Heart Association. An emphasis in School Health Education prepares students to teach health in secondary education.

College of Technology and Computing

The mission of the College of Technology and Computing is to prepare students for successful careers or advanced study in a dynamic, technology-based, global environment. The college utilizes an applied learning environment to provide the needed technical knowledge, skills, and scholarship that enable students to excel in their chosen profession. In addition, the college is committed to mutually enriching relationships with alumni, government, regional industry—and beyond, to supplement the classroom, to provide real-world experience, and to foster a desire for lifelong learning.

- **Dean:** Michael Savoie
  - Office: CS 720c
  - Telephone: 801-863-8237
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- **Administrative Support:** Jamie Winn
  - Office: CS 720
  - Telephone: 801-863-8321
  - Email: winnja@uvu.edu

- **Assistant to Dean, Director of Finance:** Jennifer Clegg
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  - Email: Victoria.Garrow@uvu.edu

- **Assistant Director of Corporate Engagement:** Jenna Boltz
  - Office: CS 624
  - Telephone: 801-863-8373
  - Email: jboltz@uvu.edu

- **Associate Dean:** Stan Klemetson
  - Office: CS 719
• Telephone: 801-863-8165
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• Associate Dean: Abraham Teng
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Advisement Center

• Administrative Support: Susan Dunn
  • Office: CS 635
  • Telephone: 801-863-8648
  • Email: susan.dunn@uvu.edu

• Advisors:
  • Andrew Gifford
    • Office: CS635
    • Telephone: 8350
    • Email: agifford@uvu.edu
      • Pre-Engineering
      • Engineering Graphic & Design Technology
  • Wendy Farnsworth
    • Office: CL 106
    • Telephone: 801-863-6780
    • Email: farnswwe@uvu.edu
      • Culinary Arts
  • Julie Harps
    • Office: CS 635
    • Telephone: 801-863-8403
    • Email: jharps@uvu.edu
      • Geomatics
      • Pre-Engineering
      • Information Systems
      • Information Technology
  • TBA
    • Office: CS 635
    • Telephone: 801-863-6597
      • Information Systems and Technology
      • Administrative Information Management
      • Business Marketing education
  • Marianna Henry
    • Office: CS 635
    • Telephone: 801-863-5598
    • Email: marianna.henry@uvu.edu
      • Digital Media
  • Patti Miner
    • Office: CS 635
    • Telephone: 801-863-8408
    • Email: minerpa@uvu.edu
      • Computing Science
      • Computer Engineering
      • Software Engineering
  • Fred Orchard
    • Office: CS 635
    • Telephone: 801-863-6238
    • Email: orcharfr@uvu.edu
      • Computer Science
Colleges and Schools

- Computer Engineering
- Software Engineering

- Amy Ostler
  - Office: CS 635
  - Telephone: 801-863-8138
  - Email: ostleram@uvu.edu
    - Construction Management
    - Building Inspection Technology
    - Cabinetry and Architectural Woodwork
    - Facilities Management
    - Electrical Automation & Robotics Technology
    - Mechatronics Technology

- Carrie Peterson
  - Office: CS 635
  - Telephone: 801-863-7454
  - Email: petersonca@uvu.edu
    - Auto Mechanics
    - Collision Repair Technology
    - Diesel Mechanics
    - Technology Management

- Joyce Porter
  - Office: CS 635
  - Telephone: 801-863-7125
  - Email: Joyce.Porter@uvu.edu
    - Digital Media

Degrees Offered

**Bachelor of Science**

- Animation and Game Development
- Business/Marketing Education
- Computer Engineering
- Computer Science
  - Computer Networking
  - Computer Science

- Construction Management
- Digital Audio
- Digital Cinema
- Geomatics
- Information Management
- Information Systems
  - Business Intelligence Systems
  - Geographic Information Systems
  - Health Information Systems

- Information Technology
  - Computer Forensics and Security
  - Network Administration and Security

- Mechatronics Engineering Technology
- Software Engineering
- Technology Management
  - Technical Emphases: (See Advisor for Applicable AAS Degree)

- Web Design and Development
  - Interaction and Design
  - Web and App Development

**Associate in Science/Arts**

- Administrative Information Management
- Automotive Technology
- Building Construction and Construction Management
- Cabinetry and Architectural Woodwork
- Computer Science
Drafting Technology
Electrical Automation and Robotics Technology
Geomatics
Information Systems and Technology
Pre-Engineering
  • Pre-Engineering

**Associate in Applied Science**

Administrative Information Support
Automotive Technology
Building Inspection Technology
Cabinetry and Architectural Woodwork
Collision Repair Technology
  • Collision Repair
  • Street Rod

Computer Science
  • Computer Engineering
  • Computing and Networking Science

Construction Management
Culinary Arts
Diesel Mechanics Technology
Digital Communication Technology
Drafting Technology
Electrical Automation and Robotics Technology
Facilities Management
Information Systems and Technology
Mechatronics Engineering Technology
Technology
Pre-Engineering
  • Biological and Chemical Engineering
  • Civil and Mechanical Engineering
  • Computer and Electrical Engineering

**Diploma**

Automotive Technology
Cabinetry and Architectural Woodwork
Collision Repair Technology
  • Collision Repair
  • Street Rod

Diesel Mechanics Technology

**Certificate of Completion**

Administrative Support
Automotive Technology
Building Inspection Technology
Cabinetry and Architectural Woodwork
Collision Repair Technology
Diesel Mechanics Technology
Network Administration
Programmer

**Certificate of Proficiency**

Information Technology
Six Sigma Green Belt

**Minor**

Applied Data Analytics
Business Education
  • Basic Business Core
  • Business Information Technology
Colleges and Schools

• Marketing

Business Information Technology
Computer Science
Digital Media
Information Systems and Technology
Technology Management

Programs

For program descriptions, see individual departmental sections in this catalog or on the department webpages.

Automotive Technology

• **Department Chair:** Vern Hiatt
  - Office: SA 327A
  - Telephone: 801-863-8268
  - Email: hiattve@uvu.edu

• **Administrative Support:** Katreena Davis
  - Office: SA 306
  - Telephone: 801-863-7022
  - Email: daviska@uvu.edu

The mission of the UVU Automotive Department is to conduct academic and applied teaching. The training programs provide qualified employees for entry level positions in all categories of the Automotive, Collision / Refinish, and Diesel repair technology industries. These programs will afford students the opportunity to attain a one, two, and/or four-year degree at the completion of their training. The training provided will have an emphasis on basic skills and principles which will allow participants to adapt to new and ever changing technologies. Current and foreseeable technology will be utilized in presenting and practicing basic performance skills.

Building Inspection Technology

• **Department Chair:** Eric Linfield
  - Office: GT 675m
  - Telephone: 801-863-8250
  - Email: eric.linfield@uvu.edu

• **Administrative Support:** Robin Bogner
  - Office: GT 610
  - Telephone: 801-863-7405
  - Email: robin.bogner@uvu.edu

The mission of the Building Inspection Technology Program (BIT) is to provide thorough preparation for students to become professional contractors or building inspectors whose values are leadership, integrity, and honesty. Our goals are to teach our students to be a lifelong learner that will constantly foster new curriculum in hopes to help and protect our community by fulfilling their needs. In the end the program will prepared professionally competent people.

Cabinetry & Architectural Woodwork

• **Department Chair:** Eric Linfield
  - Office: GT 675m
  - Telephone: 801-863-8250
  - Email: eric.linfield@uvu.edu

• **Administrative Support:** Robin Bogner
  - Office: GT 610
  - Telephone: 801-863-7405
  - Email: robin.bogner@uvu.edu

Collision Repair Technology

• **Department Chair:** Vern Hiatt
  - Office: SA 327A
  - Telephone: 801-863-8268
  - Email: hiattve@uvu.edu

• **Administrative Support:** Katreena Davis
  - Office: SA 306
  - Telephone: 801-863-7022
  - Email: daviska@uvu.edu
Computer Science
- Department Chair: Neil Harrison
- Office: CS 520M
- Telephone: 801-863-7312
- Email:

- Administrative Support: Sallie Dodge
- Office: CS 520
- Telephone: 801-863-8218
- Email: sdodge@uvu.edu

Construction Management
- Department Chair: Eric Linfield
- Office: GT 675M
- Telephone: 801-863-8250
- Email: eric.linfield@uvu.edu

- Administrative Support: Robin Bogner
- Office: GT 610
- Telephone: 801-863-7405
- Email: sdodge@uvu.edu

The mission of the Clyde Construction Management Institute is to build on a foundation of engaged learning that fosters integrity, creativity and scholarly work. Success is measured by learners who leave professionally prepared to build better communities through service, leadership and lifelong learning.

Culinary Arts Institute
- Department Chair: Peter Sproul
- Office: CL 104
- Telephone: 801-863-6764
- Email: sproulpe@uvu.edu

- Administrative Support: Marsha Peterson
- Office: CL 102
- Telephone: 801-863-6825
- Email: petermar@uvu.edu

The Culinary Arts Institute is a practical teaching institute that provides opportunity and promotes student success while meeting regional educational needs. Our program provides students with a blend of theoretical, practical, and real world educational experiences through scholarly, creative and engaged industry based learning. We are committed to excellence and strive to provide a learning environment that maximizes student talent and potential both personally and professionally.

Diesel Mechanics Technology
- Department Chair: Vern Hiatt
- Office: SA 327A
- Telephone: 801-863-8268
- Email: hiattve@uvu.edu

- Administrative Support: Katreena Davis
- Office: SA 306
- Telephone: 801-863-7022
- Email: daviska@uvu.edu

Digital Media
- Department Chair: Arlen Card
- Office: CS 526g
- Telephone: 801-863-5301
- Email: Arlen.Card@uvu.edu

- Administrative Support: Gloria Schneider
- Office: CS 526
- Telephone: 801-863-8485
- Email: schneigl@uvu.edu

Digital Media (DGM) fuses both fundamental theory and practical application in the production of electronically generated content to be delivered via Internet, radio and television, digital cinema, computer games, animation and cinematic visual effects, as well as for emerging technologies such as mobile computing (hand-held computing devices). The
Curriculum integrates these digital mediums to entertain, educate, and communicate ideas through meaningful human interaction. DGM provides motivated and dedicated students the opportunity to work closely with professionally active faculty members committed to the future of the digital disciplines.

Electrical Automation & Robotics Technology

- **Department Chair:** Dave Adams
  - Office: CS 624
  - Telephone: 801-863-6052
  - Email: adamsda@uvu.edu

- **Administrative Support:** Christine Peterson
  - Office: CS625
  - Telephone: 801-863-5571
  - Email: christine.peterson@uvu.edu

Engineering Graphics & Design Technology

- **Department Chair:** Robert Price
  - Office: CS 704g
  - Telephone: 801-863-8145
  - Email: pricero@uvu.edu

- **Administrative Support:** Christine Bigelow
  - Office: CS 704
  - Telephone: 801-863-8363
  - Email: bigeloch@uvu.edu

The mission of the Engineering Graphics and Design Technology Department is to prepare future professionals to engage in the diverse disciplines of Engineering Graphics and Design, Geomatics, Electrical Automation and Robotics, Mechatronics, and Pre-Engineering. The Department cultivates an elevated commitment to work ethic, quality, productivity, and service. Successful graduates will be dynamic self-starters and lifelong learners who are serious about work and accept the stewardship of designing the future.

Facilities Management

- **Department Chair:** Eric Linfield
  - Office: GT 675m
  - Telephone: 801-863-8250
  - Email: eric.linfield@uvu.edu

- **Administrative Support:** Robin Bogner
  - Office: GT 610
  - Telephone: 801-863-7405
  - Email: Robin.Bogner@uvu.edu

The Facilities Management Program (FAC) mission is to prepare students careers in the planning, maintenance and construction of business globally and regionally. In addition, the students will be provided opportunity to be leaders, learners, and gain integrity when being taught in an institution filled with decisions that they will have to make. This program will prepare the students for the real industrial side of their profession.

Information Systems & Technology

- **Department Chair:** Keith Mulbery
  - Office: CS 601f
  - Telephone: 801-863-8843
  - Email: keith.mulbery@uvu.edu

- **Administrative Support:** Cheryl Levi
  - Office: CS 601
  - Telephone: 801-863-8182
  - Email: Cheryl.Levi@uvu.edu

Technology Management

- **Department Chair:** Cheryl Hanewicz
  - Office: GT 616c
  - Telephone: 801-863-6152
  - Email: Hanewich@uvu.edu

- **Administrative Support:** Wendy Ellison
  - Office: GT 616
  - Telephone: 801-863-8137
The mission of the Technology Management Department is to provide academic degrees in technical and operations management relevant to the global economy of the 21st century. Our courses provide appropriate knowledge and skills through engaged learning and hands-on activities and foster scholarship investigation, ethical responsibility, creativity, and lifelong learning. Students will be prepared for professional careers and provided with a strong foundation for advanced academic study. Our graduates will also be prepared to contribute to their employers and communities through leadership, service, and a concern for the environment.

Other Academic Programs

Occasionally, academic programs span all or several of the colleges or schools of the University. These programs often have an interdisciplinary aspect to them. They are enhancements to and enrichments of other existing programs explained within the colleges or schools and departments in other descriptions in this catalog.

The interdisciplinary programs at UVU provide students with rich and varied opportunities to engage in study and research that address complex problems by drawing on multiple disciplinary tools.

UVU offers several curriculum-spanning opportunities for students to explore interdisciplinary relationships.

The Leadership Certification Program brings together students who are interested in strengthening their leadership skills, no matter what their major.

The Center for the Study of Ethics provides opportunities for students to think more deeply about the ethical dimensions of contemporary life.

The Honors Program works with a number of departments and colleges and schools on campus to prepare students for graduate or professional schools, among other futures, through interdisciplinary research, internship, field, and experiential learning opportunities.

The Integrated Studies Program allows students to engage in cross-disciplinary research that can culminate in an associate and/or bachelor degree.

Interdisciplinary programs at UVU offer innovative learning experiences that challenge, teach, and prepare student for successful lives and careers after graduation.

For more information, please see individual department pages.

See below for more detail on interdisciplinary or cross-discipline programs and opportunities.

• Senior Vice President for Academic Affairs: Jeff Olson
  • Office: BA 216d
  • Telephone: 801-863-8951
  • Email: jolson@uvu.edu

The Center for the Advancement of Leadership

• Assistant Director: Belinda S. Han
  • Office: LC 302
  • Telephone: 801-863-6465
  • Email: cal@uvu.edu

Leadership Certification Program

The Center for the Advancement of Leadership (CAL) has designed an extra-curricular Engaged Learning University Distinction in Leadership for any and all students on the UVU Campus. Whether majoring in business, engineering, law, emergency services, biology, aviation, or any other degree or program, this Engaged Learning Distinction is designed for students who wish to advance their personal, interpersonal, organizational and/or civic leadership skills while pursuing their degrees and programs – making them more productive and marketable to their future employers and/or graduate or professional schools.

All students are invited to preview the program by visiting our website at uvu.edu/leadership, attending our monthly Master Mind Meeting the first Monday of each month, visiting our office in LC 302, or calling (801) 863-6466.

Leadership Certification Structure

The Engaged Learning University Distinction in Leadership focuses on four key aspects of personal development: Learn, Engage, Acquire, and Discover. Together, these four aspects ensure leadership growth concurrently in both the personal and professional arenas.

The Engaged Learning University Distinction in Leadership is a two year program.

• Advisory Board:
Colleges and Schools

- Jeff Kahn, (Current Board Chair) RJR Investments; Lieutenant Colonel Hank McIntire, Public Affairs Officer Utah National Guard; Craig Porter-Rollins, CEO L J Cooper; David Reeves, Imagine Learning; Christina Roach, JD; Kelly Johnson, Branch Manager at Bank of Utah; Margaret Jensen, Manager at LDS Employment Resource Services; Mark Woodmansee, Precision Air Cargo; Ron Hinckley, President (retired) Research/Strategy/Management, Inc.

Center for the Study of Ethics

- **Director:** Brian D. Birch
- **Associate Director:** Jon Westover
- **Coordinator:** Susanna Garcia
  - Office: LA 109
  - Telephone: 801-863-5455
  - Email: ethics@uvu.edu
  - Web: uvu.edu/ethics

The Center for the Study of Ethics (CSE) supports and facilitates the interdisciplinary study of ethics. This includes traditional moral philosophy and the integration of theory and practice across the disciplines and professions. Center activities include public forums, co-curricular support of faculty and student scholarship, and community engagement activities.

Because an educated citizenry is necessary for democracy, the study of interdisciplinary ethics aids individuals in moral decision-making relevant to professional, private, and public life. While CSE programming addresses a range of challenging ethical and public policy issues, the CSE is a non-advocacy center designed to promote academic achievement and community dialogue.

Regular events include Ethics Awareness Week, the Environmental Ethics Symposium, the Faculty Summer Seminar. The CSE also hosts a variety of customized forums in response to student interest and contemporary events.

The organizational structure of the CSE is comprised of an Executive Committee, the Community Advisory Board, and the Faculty Advisory Committee.

Ethics forums are free and open to the public.

Honors Program

- **Main Office:** LC 204
  - Telephone: 801-863-6262
  - Fax: 801-863-6562
  - Web: uvu.edu/honors

- **Faculty Director:** Kathryn McPherson
  - Office: LC 204a
  - Telephone: 801-863-8055
  - Email: kmcpherson@uvu.edu

The Honors Program at Utah Valley University provides opportunities for highly motivated students pursuing any associates or baccalaureate degree to realize academic, professional, and personal potential. Honors offers a powerful first-year experience, sustained peer-group interactions, and small courses with outstanding faculty employing innovative classroom approaches. Honors students benefit from experiential learning, undergraduate research, cultural events, and dynamic social gatherings. Honors students also experience extensive mentoring by faculty while researching and completing a year-long Honors thesis or project, leaving students well-positioned to succeed in applications to competitive graduate and professional schools. Close interaction with faculty in small Honors courses also fosters opportunities for students’ career and professional development. Graduate school and employment applications are enhanced by the numerous research, internship, field, and experiential learning opportunities provided by the Honors Program.

Unique in Utah, the Honors Colloquium is a 1-credit course that includes cohort building activities emphasizing cultural, outdoor, and academic activities. These include trips to the Utah Symphony, Utah Opera, guest lecturers from the academic and professional communities, outdoor recreation activities, reading groups, and community or campus service projects. The Colloquium syllabus is available each semester in the Honors Office (LC 204) or in electronic form from the Faculty Director and Program Coordinators.

The Honors Program also offers merit-based tuition scholarships to Utah residents, as well as a competitive housing scholarship that is available to both resident and non-resident students. Application to the program and for these scholarships occurs each October for Spring semester and each January for Fall semester.

Integrated Studies

- **Department Chair:** Wayne Hanewicz
  - Office: CB 311h
  - Telephone: 801-863-6343
  - Email: hanewiwa@uvu.edu

- **Administrative Support:** Mark Olson
  - Office: CB 311c
  - Telephone: 801-863-5888
  - Email: mark.olson@uvu.edu

- **Advisor:** Lynne Hetzel
  - Office: CB 506d
Colleges and Schools

Integrated Studies Degrees

- Bachelor of Arts
- Bachelor of Science
- Associate in Arts
- Associate in Science

The individualized nature of the Integrated Studies degree is attractive to students with multiple interests. Students integrate course work in emphases such as biology, earth science, business, health, literature, creative writing, languages, communication, philosophy, psychology, sociology, anthropology, and the arts. Emphases from computer science and information systems, accounting, technology management, and exercise science are also offered as part of this degree. For more information, please visit the Integrated Studies website at uvu.edu/is.

Interdisciplinary Studies Program

- **Director:** John C. Goshert
  - Office: LA 114g
  - Telephone: 801-863-6288
  - Email: goshertjo@uvu.edu
  - Fax: 801-863-6255

- **Administrative Support:** Mark Olson
  - Office: LI 508
  - Telephone: 801-863-5888
  - Email: mark.olson@uvu.edu

Interdisciplinary Studies provides a framework for supporting innovative, boundary-crossing inquiry among students and faculty across campus as well as in wider intellectual and social communities. IDST coordinates existing multidisciplinary minor and emphasis programs and provides guidance and support as new programs are envisioned and established. IDST programs promote instructional excellence and offer a variety of courses and events that enhance the overall academic experience at Utah Valley University.

Interdisciplinary Minor Programs

- American Indian Studies
- American Studies*
- Chinese Commerce
- Chinese Studies
- Cinema Studies*
- Classical Studies*
- Deaf Studies
- Environmental Studies*
- Gender Studies
- Peace and Justice Studies
- Religious Studies*
- Russian Studies

An asterisk denotes that an Integrated Studies emphasis is available.

School of Education

The School of Education prepares competent, caring and qualified individuals who are ready to assume the role of teacher in elementary and secondary schools, as well as prepare them for further career choices and advancement. The professional program provides essential coursework and experiences to support students as they progress toward becoming professional educators. Students are engaged in research-based and standards-based instruction in content and pedagogy. Candidates are expected to plan, instruct, and assess in a manner that meets curriculum, school and district goals as well as the diverse instructional and experiential needs of all students. Candidates reflect on their own practice and performance, analyze progress, and make choices for future professional growth. In the Master's program, new knowledge is put into practice in students' own classrooms. Graduates acquire knowledge, skills, and dispositions to positively impact their classroom, school, and community as they continue on the journey of life-long learning.

- **Dean:** Parker Fawson
  - Office: ME 117b
  - Telephone: 801-863-8006
  - Email: Parker.Fawson@uvu.edu

- **Administrative Contact:** Wendy Oldroyd
  - Office: ME 117
Degrees Offered

Master of Education

Bachelor of Science

Elementary Education

Associate in Arts/Science

Early Childhood Education
Pre-Elementary Education

Certificate of Completion

Early Care and Education

Licenses Offered

Elementary Education (K-6)
Secondary Education (6-12)

- Art Education
- ASL and Deaf Studies Education
- Biology Education
- Business/Marketing Education
- Chemistry/Physics Education
- Dance Education
- Earth Science Education
- English Education
- History Education
- Mathematics Education
- Music Education
- Physical Education Teacher Education
- School Health Education
- Spanish Education
- Theatre Arts Education

Partner Districts

- Alpine School District
- Canyons School District
- Granite School District
- Jordan School District
- Nebo School District
- North Summit School District
- Park City School District
- Provo School District
- South Summit School District
- Wasatch School District

Programs

Elementary Education

- **Department Chair:** Mike Patch
• Office: ME 116d
• Telephone: 801-863-6720

**Administrative Support:** Connie Wright
• Office: ME 116
• Telephone: 801-863-8228

**Field Coordinator:** Richard Allred
• Office: ME 131c
• Telephone: 801-863-6580

**Administrative Support, Advisement Center:** Kay Lynn Palmer
• Office: ME 114
• Telephone: 801-863-8478

**Advisors:**
• Leslie Hudson
  • Office: ME 114f
  • Telephone: 801-863-8478

• Shaunna Requiman
  • Office: ME 114d
  • Telephone: 801-863-8478

• Christopher Allredge
  • Office: ME 114a
  • Telephone: 801-863-8478

Secondary Education

• **Interim Department Chair:** Raquel Cook
  • Office: ME 116b
  • Telephone: 801-863-8777

• **Administrative Support:** Connie Wright
  • Office: ME 116
  • Telephone: 801-863-8228

• **Field Coordinator:** John Burton
  • Office: ME 131b
  • Telephone: 801-863-6587

• **Advisor:** Rick Dumont
  • Office: ME 114b
  • Telephone: 801-863-8478

Graduate Studies

• **Coordinator:** Mary Sowder
  • Office: ME 116c
  • Telephone: 801-863-6723

• **Advisor:** Rick Dumont
  • Office: ME 114b
  • Telephone: 801-863-8478

• **Graduate Assistant:** Rasha Al-Khayro
  • Office: ME 132
  • Telephone: 801-863-5468

**School of the Arts**

**School of the Arts**

• **Dean:** K. Newell Dayley
Degrees Offered

**Bachelor of Fine Arts**

Art and Visual Communications
- Graphic Design
- Illustration
- Painting/Drawing
- Photography
- Sculpture/Ceramics

Dance
- Ballet
- Modern Dance

Theatre Arts
- Acting
- Musical Theatre
- Theatre Design and Production

**Bachelor of Music**

Commercial Music
Performance

**Bachelor of Arts/Science**

Art and Visual Communications
Art Education
Art History
Dance
- Ballroom Dance

Dance Education
Music
Music Education
Theatre Arts
Theatre Arts Education

**Integrated Studies**
• Art History
• Ballet
• Ballroom Dance
• Graphic Design
• Modern Dance
• Music
• Photography
• Theatre Arts

Assocate in Arts/Science

Art and Visual Communications
Dance
Music
Theatre Arts

Associate in Applied Science

Art and Visual Communications
  • Design/Illustration
  • Graphic Design
  • Photography

Theatre for Children and Youth

Certificate of Completion

Art and Visual Communications

Minor

Art History
Music
Theatre Arts

Programs

Art & Visual Communications

  • **Department Chair:** Perry Stewart
  • Office: GT 535a
  • Telephone: 801-863-8341

The Department of Art and Visual Communications prepares students for careers in applied arts, fine arts, and art education. Training is provided for both 2-dimensional and 3-dimensional art in a variety of media. Professional training is provided in the areas of graphic design, illustration, photography, painting/drawing and sculpture/ceramics through the BFA degree. The BFA degree is a competitive program for those with above average abilities in art and requires students to specialize in one of the aforementioned areas. The BS/BA degrees are general degrees that allow students to study various aspects of art and visual communications and are open to all. The Bachelor of Science in Art Education helps prepare students to teach in secondary schools. Some of our 1000 level courses also fulfill general education requirements.

Dance

  • **Department Chair:** Nichole Ortega
  • Office: GT 675m
  • Telephone: 801-863-8610

The mission of Utah Valley University Department of Dance is to foster academic and artistic excellence through an intensive technical and reflective study of dance. Anchored in a common core curriculum with several areas of emphasis, our program provides a rich and stimulating environment where students cultivate their technical, aesthetic, creative, and scholarly potential. We value superior teaching which promotes dance as an artistic and cultural expression that has the power to enrich and transform the individual, community, and society.

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. A variety of student, pre-professional and professional companies within the department provide excellent local, national and international performing opportunities for students in formal and informal as well as, adjudicated settings. Membership in companies is by audition only.

Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), performers, choreographers, dance historians and critics, administrators, dance therapists and professionals in the field of somatics, private studio owners, health and fitness consultants, researchers, notators and movement analysts.
Music

- **Department Chair:** Donna Fairbanks
  - Office: GT 332
  - Telephone: 801-863-8534

The Department of Music promotes student success through innovative programs that enhance musical creativity, hone performance expertise, and sustain high standards of academic excellence. It provides world-class faculty and opportunities essential to the professional competency of music students as they prepare for an increasingly global marketplace. Cultivating appreciation for the musical arts, it engages diverse audiences in the campus, regional, and global communities through performances and activities representing an array of musical styles and traditions.

**Our objectives are to:**

Offer the highest quality of education for students pursuing undergraduate programs in music performance, commercial music, music education, liberal arts in music, and integrated studies with a music emphasis.

Provide general music studies and performance opportunities to all students on campus.

Foster an open and inclusive environment that engages traditional and non-traditional students, celebrates diversity, and promotes understanding of a variety of musical styles and cultures.

Promote a supportive and stimulating environment within the department that encourages students and faculty to explore creativity and innovation at their highest professional potential to enhance their success.

Theatrical Arts for Stage & Screen

- **Department Chair:** Christopher Clark
  - Office: FA 705
  - Telephone: 801-863-6939

The Department of Theatrical Arts for Stage and Screen offers programs of study leading to the Associate in Science degree, to the Associate in Applied Science degree, and to three baccalaureate degrees – Bachelor of Arts, Bachelor of Science in Theatre Arts Education, and the Bachelor of Fine Arts in Theatre Arts. The Department provides cultural experiences and undergraduate instruction in theatre and film for the individual theatre major, the UVU student community, and the community at large, preparing students not only for continued education and employment, but also for lifelong learning, personal fulfillment, and culturally active citizenship.

The Department mounts four to six productions per year encompassing a rich variety of genres and time periods. Students work side-by-side with faculty whose combined professional theatre experience and academic credentials enrich coursework in performance, script analysis, script writing, directing, theatre history and literature, theatre management, and in design for lighting, sound, scenery, costumes, and makeup. Productions are often selected for showcasing in the Kennedy Center American College Theatre Festival, where students also compete for scholarships and professional employment.

Smaller student cohorts make it possible for the vast majority of student performers to be on stage in any given school year and for aspiring technicians and designers to be involved in the production process early in their college careers. The annual Short Attention-Span Theatre Festival features student-written, -directed, -designed, and -performed productions.

The Department, working in relationship with the Sundance Resort, produces the Sundance Summer Theatre every July and August. Students are given opportunities to perform, design, build, and stage manage these semi-professional productions.

The Department also manages a Theatre Study Abroad program, where 10-15 students spend four weeks living and studying theatre in London. Students also produce a performance piece that travels to and performs at the Edinburgh Fringe Theatre Festival.

Woodbury Art Museum

- **Director:** Melissa Hempel
  - Office: University Mall, N250
  - Telephone: 801-863-4200

The Woodbury Art Museum serves as a catalyst in engaging our community in aesthetic investigation and cultural awareness. The museum collects, preserves, and exhibits art and related materials, focusing on modern and contemporary artistic styles. These exhibitions, programs, and collections stimulate research and serve as a valuable resource in our academic setting as well as in the community.

The Woodbury Art Museum provides free exhibitions and programs for local communities. Showcasing the museum's Permanent Collection and rotating exhibitions, the museum has been presenting the visual arts since 2002. We are located on the second floor of the University Mall. The Woodbury Art Museum exists out of the generosity of Orrin and Wally Woodbury.

Utah Valley University Arts Resource Council

- **Contact:** Kyle Tresner
  - Telephone: 801-863-6246
  - Email: Kyle.Tresner@uvu.edu

The Utah Valley University Arts Resource Council is an active partner in helping the School of the Arts accomplish many things. Chosen for their demonstrated leadership and accomplishments in the arts, business and/or community service, Council members provide valuable counsel and assistance in the areas of creative and scholarly activity.
development, fund raising, and increasing awareness in the community. Success in these focus areas contributes significantly to the students and faculty of the School of the Arts and allows the School to more fully enrich the community.

University College

University College serves a unique role and mission within Utah Valley University. Based on a national model, the name University College signifies opportunity for student success through curricular and co-curricular offerings, academic services, and innovative programs. University College welcomes students at present levels of achievement and challenges them with higher expectations. The programs and departments of Basic Composition, Student Leadership and Success Studies, Developmental Mathematics, English Language Learning, Academic Counseling Center, Academic Standards, First-Year Experience & Student Retention, and Tutoring and Academic Skills Services (TASS) promote interdisciplinary partnerships as students transition into university academics.

- **Dean:** Forrest Williams  
  - Office: LA 210c  
  - Telephone: 801-863-8494  
  - Email: forrest.williams@uvu.edu

- **Administrative Support:** Beth Winkler  
  - Office: LA 210  
  - Telephone: 801-863-6712  
  - Email: beth.winkler@uvu.edu

- **Associate Dean:** Talitha Hudgins  
  - Office: LA 210e  
  - Telephone: 801-863-6963  
  - Email: thudgins@uvu.edu

- **Assistant Dean:** Jessica Awtrey  
  - Office: LA 210d  
  - Telephone: 801-863-6766  
  - Email: jessica.awtrey@uvu.edu

Degrees Offered

**Associate in Arts/Science**

University Studies

**Bachelor of Arts/Science**

University Studies

**Programs**

University College values student-centered learning and focuses on assisting students exploring the direction of their academic careers, seeking flexibility in degree choices, or undertaking an enhanced college experience.

Basic Composition

- **Department Chair:** Deborah Marrott  
  - Office: LA 234f  
  - Telephone: 801-863-8823  
  - Email: marrottde@uvu.edu

- **Administrative Support:** Laurie Toro  
  - Office: LA 234a  
  - Telephone: 801-863-6387  
  - Email: ltoro@uvu.edu

- **Advisor:** Gayla Amosa  
  - Office: LA 209f  
  - Telephone: 801-863-8729  
  - Email: gayla.amosa@uvu.edu
Colleges and Schools

The Basic Composition Department is dedicated to assisting students and community members who wish to improve their reading, writing, and communication skills in preparation for taking college courses or for self-improvement. Instruction in the Basic Composition program emphasizes helping students to think critically, comprehend and respond to written texts, analyze and synthesize texts, organize ideas, use logic and support to present oral and written arguments, compose in a variety of electronic environments, and learn the conventions of academic English. The Basic Composition Department strives to accomplish its mission by providing a learner-centered environment which allows students to develop self-confidence along with the skills necessary to succeed in their academic or occupational endeavors. The Department uses a variety of instructional formats including traditional classroom settings, hybrid and online instruction, collaborative learning activities, peer and instructor tutorials, and individualized instruction to meet student needs.

Developmental Mathematics

- **Department Chair:** Keith White
  - Office: LA 217b
  - Telephone: 801-863-7217
  - Email: Keith.White@uvu.edu

- **Administrative Support:** Shelby Ford
  - Office: LA 217n
  - Telephone: 801-863-6570
  - Email: sford@uvu.edu

- **Assistant Chair:** Laurel Howard
  - Office: LA 217c
  - Telephone: 801-863-6311
  - Email: howardla@uvu.edu

- **Evening Coordinator:** Ian Sorensen
  - Office: LA 217m
  - Telephone: 801-863-6728
  - Email: Ian.Sorensen@uvu.edu

- **Advisors:**
  - Sharon Larson
    - Office: LA 221a
    - Telephone: 801-863-6726
    - Email: sharon.larson@uvu.edu

  - Monica Ferreyra
    - Office: LA 220
    - Telephone: 801-863-5396
    - Email: MonicaF@uvu.edu

The courses offered by the Department of Developmental Mathematics are designed to provide a foundation in preparatory mathematics that is required for higher level mathematics courses and that support our students in many disciplines. The courses also provide for the development of critical thinking skills that are applicable to all aspects of academic life.

The Department of Developmental Mathematics offers MAT 1000 and MAT 1010, Intermediate Algebra as transferable, college credit classes, and as prerequisites for MATH 1030, MATH 1040, and MATH 1050. The Department of Developmental Mathematics also offers preparatory, non-transferable courses for students who need to strengthen mathematics skills before entering MAT 1010.

English Language Learning

- **Department Chair:** Brian MacKay
  - Office: LA 209d
  - Telephone: 801-863-8272
  - Email: brian.mackay@uvu.edu
  - Web: uvu.edu/ell

- **Operations Coordinator:** Elizabeth Nield
  - Office: LA 209c
  - Telephone: 801-863-6865
  - Email: elizabethn@uvu.edu

- **Administrative Support:** TBD
  - Office: LA 209
  - Telephone: 801-863-6404

- **Advisor:** Gayla Amosa
  - Office: LA 209f
  - Telephone: 801-863-8729
  - Email: gayla.amosa@uvu.edu
The mission of the English Language Learning department at Utah Valley University is to provide a broad range of quality academic and social opportunities designed to help non-native English speaking students understand and successfully meet academic language expectations within an American university by demonstrating proficiency in reading, writing, grammar, and listening/speaking.

All students are required to take a placement examination prior to registration for any courses. Placement/promotion testing is done at the beginning and end of each semester. All students who successfully complete the advanced level courses and meet the ELL Program exit criteria are admitted into the university to begin their undergraduate or graduate academic studies.

Student Leadership & Success Studies

- **Department Chair:** Marinda Ashman  
  - Office: LC 407g  
  - Telephone: 801-863-7227  
  - Email: mashman@uvu.edu

- **Assistant Chair:** Ben Johnson  
  - Office: LC 405d  
  - Telephone: 801-863-6725  
  - Email: Benjamin.Johnson@uvu.edu

- **Administrative Support:** Beth Reid  
  - Office: LC 407a  
  - Telephone: 801-863-8834  
  - Email: ereid@uvu.edu

- **Director, Student Success/UV Mentor Program:** Mike Jensen  
  - Office: LC 406a  
  - Telephone: 801-863-7090  
  - Email: JENSENM@uvu.edu

- **Program Manager, UV Mentor Program:** Gretchen Palmer  
  - Office: LC 406b  
  - Telephone: 801-863-5436  
  - Email: Gretchen.Palmer@uvu.edu

The department’s mission is to help students acquire the knowledge, skills, and abilities needed to meet the challenges of college. Students may choose from a variety of College Success courses which best fit their academic needs. The College Success courses better prepare students for the demands of college life, the selection and pursuit of major and career paths to graduation, developing effective ways to manage time, learning, and stress, library research techniques, and the development of other essential life skills. Also presented are test taking and memory skills, speed reading techniques, and other learning strategies which help students increase their academic confidence and success.

Learning Communities

- **Administrative Support:** Amanda Reid  
  - Office: LA 012e  
  - Telephone: 801-863-6879  
  - Email: areid@uvu.edu

Learning Communities consist of two courses linked together where you are with the same students in both classes, explore common themes, build partnerships with professors and peers, and participate in rewarding community engagement projects. Participation in a Learning Community offers a number of benefits, all of which help promote your academic and social success at UVU. The potential benefits include:

- Enhanced academic and social opportunities
- Improved GPA
- Improved connection to faculty and other students
- Greater involvement in learning
- Increased satisfaction with your UVU experience
- Increased persistence to graduation

To find out more and explore Learning Communities:

- visit uvu.edu/learningcommunities
- email learningcommunities@uvu.edu
- contact our Administrative Support - Amanda Reid

Academic Counseling Center

- **Director:** Adam Black  
  - Office: LC 402  
  - Telephone: 801-863-8425  
  - Email: acadcounseling@uvu.edu
Colleges and Schools

- Web: uvu.edu/acc

The Academic Counseling Center (ACC) is committed to meeting the career and academic needs of current and future students, faculty, staff, and community members. Our center is an ideal starting point for undecided students, with many working towards their Associate in Science (AS) or Associate in Arts (AA) degree in University Studies, or those pursuing professional programs requiring formal application such as Law and Medical school.

Academic Advising & Counseling

Academic counselors are available to assist students in determining and achieving their educational goals. Counselors are qualified to help students select majors and careers, review prior education, and plan educational programs.

The ACC provides advisement for general education requirements and is the advisement center for those majoring in University Studies. Students are referred to departmental advisors for help in meeting their major requirements. Other services provided include assisting students experiencing academic difficulties and enforcing academic standards.

The ACC also has counselors for students seeking admission into Law School, Medical, Dental, Nursing and many other health occupations.

Referrals are made to help students achieve their educational goals. Some of these include referrals to personnel in the Accessibility Services Center, Student Health Services, Testing Services, University Studies, and to academic departmental advisors.

Career Assessment & Counseling

Our counselors provide a full range of career assessment. These services include:

- Career interest/personality testing
- One-on-one career counseling sessions
- Career workshops
- Occupational information
- Use of UtahFutures career and educational software
- Career resource library
- Vocational evaluation services

Academic Standards

- Director: Jan Klingman
  - Office: LC 402
  - Telephone: 801-863-5325

- Hours:
  - Monday 8 a.m. - 6 p.m.
  - Tuesday 8 a.m. - 7 p.m.
  - Wednesday 8 a.m. - 7 p.m.
  - Thursday 8 a.m. - 7 p.m.
  - Friday 8 a.m. - 5 p.m.

The primary mission of the Academic Standards Office at UVU is to promote students' academic success and to assist those experiencing academic difficulty. The work of the Academic Standards Office is to assist students in discovering and accessing the personal or college resources that will allow them to reach their full potential. When students fall below the grade point average standard of 2.0, the programs of the Academic Standards Office are intended to bring them back on course toward academic success and graduation.

Academic Standards will help students find success through:

- Probation and Warning Workshops
- Referrals to other applicable resources and departments
- One-on-one academic counseling
- Grade check appointments
- StrengthsFinder assessments
- Eye-Q Brain and Learning Enhancement

Learning Strategies Support

- Coordinator: Pat Nelson
  - Office: LC 404h
  - Telephone: 801-863-7418
  - Email: Pat.Nelson@uvu.edu

Learning Strategies Support provides many resources for students:

- Assistance in developing a personalized program of study processes
- Assessment of learning styles
- Support programs for transitional and provisionally admitted students
- Student success workshops, learning processes education
- Referral to other services and agencies
- Help with Accuplacer Exam
First-Year Experience & Student Retention

- **First-Year Experience (FYE)**
  - Telephone: 801-863-4000
  - Email: success@uvu.edu
  - Web: uvu.edu/retention
  - Web: uvu.edu/firstyear

- **Director:** Marcy Glassford
  - Office: LC 405m
  - Telephone: 801-863-7067
  - Email: marcyg@uvu.edu

- **Assistant Director, FYE and Orientation:** Martha Wilson
  - Office: LC 405n
  - Telephone: 801-863-5190
  - Email: marthaw@uvu.edu

First-Year Experience and Student Retention (FYESR) administers multiple programs designed to support student success which include Early Alert, Stoplight, and Retention Mentors. FYESR also coordinates UVU’s First Year Experience (FYE) program which includes:

- Orientation
- Freshman Reading Program
- Freshman Convocation
- StartSmart
- UVCommit
- Freshman Year-end Celebration

**Student Success and UV Mentor Program**

- **Director, Student Success/UV Mentor Program:** Mike Jensen
  - Office: LC 406a
  - Telephone: 801-863-7090
  - Email: JENSENMi@uvu.edu

- **Program Manager, UV Mentor Program:** Gretchen Palmer
  - Office: LC 406b
  - Telephone: 801-863-5436
  - Email: Gretchen.lynch@uvu.edu

The Student Success/UV Mentor program, in partnership with Student Affairs, focuses on preparing students for their college experience. The program is committed to leveraging students for success and persistence in achieving their academic goals. The program is fully integrated into campus-wide student success and retention initiatives. The University Student Success course (SLSS 1000), taught through the Department of Student Leadership Success Studies, is the recommended starting point for first-year students. The objectives of the University Student Success course include:

- Study Strategies
- Self-Discovery and Awareness
- Socialization and Connection to the campus community

The program is home to the UV Mentors. Our UV Mentors are dedicated student leaders who are trained to mentor first-year students and assist instructors in every section of University Student Success. The goals of UV Mentors are to connect personally to their students by mentoring them and modeling the skills being taught. UV Mentors are students who are successful in their SLSS 1000 class, who then enroll in the Leadership Mentoring I class (SLSS 2200), and then were selected to serve as peer mentors. UV Mentors are awarded tuition waivers for their service.

**Tutoring & Academic Skills Services (TASS)**

Tutoring and Academic Skills Services is available at no charge to all UVU students. Qualified tutors provide one-on-one tutorials and help lead group study sessions and workshops. Information about tutoring or learning strategies may be obtained by contacting coordinators of any of the following services.

**Academic Tutoring**

Drop-In Lab: LA 201

- **Director:** Erin Daniel
  - Office: LA 201j
  - Telephone: 801-863-8356
  - Email: edaniel@uvu.edu
Colleges and Schools

- Web: www.uvu.edu/academictutoring
- Drop in tutoring and homework help at the following locations:
  - Science – LA 201
  - Accounting/Business – WB 111
  - Computer Science and Engineering – CS 612
- Individual appointments, small group tutoring, and course review sessions are also available.
- All services are free. Come and find out how we can help you.

Math Lab

Drop-In Lab: LA 201

- **Director:** TBD
- **Office:** LA 201e
- **Telephone:** 801-863-8730
- **Web:** www.uvu.edu/mathlab

The Math Lab provides tutoring and classroom support to outreach programs which facilitate student success in mathematics. Free drop-in and appointment-based math tutoring is offered in LA 201 and other satellite locations, including the Calculus & Statistics Lab (LC 301). Online tutoring is also available via smarthinking.com.

Writing Center

Drop-In Lab: LI 208

- **Faculty Director:** Joshua Hilst
- **Director:** Leigh Ann Copas
- **Office:** LI 208
- **Telephone:** 801-863-8936
- **Email:** copasle@uvu.edu
- **Web:** www.uvu.edu/writingcenter
- **Appointment Scheduler:** uvu.mywconlin.com
- **Assistant Coordinator:** Rebecca Disrud

The Writing Center provides free one-on-one tutoring to all UVU students. Students may bring writing assignments for any class in face-to-face and web conference tutorials. Students can book appointments by registering an account at uvu.mywconline.com The Center offers free writing workshops, handouts, practice tests, reference books, textbooks, writing manuals, and ESL materials. Graduate student tutoring is also provided. In addition, the Writing Center hosts the Writing Fellows program, a form of supplemental instruction designed to work closely with discipline specific writing courses.

Woodbury School of Business

Woodbury School of Business

- **Dean:** Dr. Norman S. Wright
- **Office:** WB 128b
- **Telephone:** 801-863-8260
- **Email:** Norman.Wright@uvu.edu
- **Fax:** 801-863-7314

- **Administrative Support:** Dixie Maughan
- **Office:** WB 128
- **Telephone:** 801-863-8260
- **Email:** dmaughan@uvu.edu
- **Fax:** 801-863-7314

- **Associate Dean:** Dr. Jacob Sybrowsky
- **Office:** WB 219
- **Telephone:** 801-863-6458
- **Email:** Jacob.sybrowsky@uvu.edu
- **Fax:** 801-863-7314

- **Associate Dean:** Lynn Adams
Assistant Dean: Mikki O’Connor
Office: WB 128a
Telephone: 801-863-6148
Email: oconnomi@uvu.edu
Fax: 801-863-7314

MBA Director: William Neal
Office: WB 127b
Telephone: 801-863-6148
Email: william.neal@uvu.edu
Fax: 801-863-7314

MBA Academic Coordinator: Tammy Huffman
Office: WB 230
Telephone: 801-863-8367
Email: tammy.huffman@uvu.edu
Fax: 801-863-7314

MBA Admissions Coordinator: Matthew Moon
Office: WB 127a
Telephone: 801-863-5099
Email: mmoon@uvu.edu
Fax: 801-863-7314

MBA Administrative Support: Gina Johnson
Office: WB 127
Telephone: 801-863-5504
Email: gina.johnson@uvu.edu
Fax: 801-863-7314

MBA Career Services Coordinator: Kevin Castle
Office: WB 142
Telephone: 801-863-5596
Email: kcastle@uvu.edu
Fax: 801-863-7314

MBA Advisor: Terry Smith
Office: WB 132a
Telephone: 801-863-8314
Email: acordte@uvu.edu
Fax: 801-863-7314

Advisory Council:
Amy Rees Anderson, Managing Partner, Rees Capital; Steve Beck, Founding Partner, COBE Development, Inc; Jeanette Bennett, Owner, Utah Valley Magazine; Lynn Blodgett, retired Vice President, Xerox; Bruce Bowen, First Vice President, Investment, UBS Financial Services; Wendel Burt, Owner, Burt Brothers Tire & Service; Mary Crafts-Homer, CEO, Culinary Crafts; Lew Cramer, President, Coldwell Bank Commercial S; Bryan Davis, Founder, Xango, LLC; Alex Dunn, President, Vivant, Rick Farr, VP of Technology, CR England; Bryant Foulger, Principal, Foulger Pratt; Martin Frey, Partner, Connect Advisors, LLC; Brian Fruit, Owner, Lizard Skins; Jeremy Hafen, President, SunRoc Building Materials, Inc; Val Hale, Executive Director, Governor's Office of Economic Development; Reed Halladay, Managing Director, Bel Air Investment Advisors; Rick Heyland, Executive Vice President, RLG International; Dan Howells, JD, Nature's Sunshine, CEO (Retired); Tom McDonald, CFO, Xlear; Carla Meine, CEO, Salacia Farms; Bobbi Norton, Area Leader, Buckle; Rona Rahlf, Chair, Utah Valley Chamber of Commerce; Jon Richards, Founder, Creamies; Donna Root, President, Jigabot; Josh Rowley, CPA, Partner, Hawkins, Coward & Simister, LC; Steve Sessions, President & CEO, Sessions Group; Andrew Shimberg, CEO, VitalSmarts; Robert Simmons, Partner, Bendigo Partners; Eric Smith, Control4, Jill Taylor, District President, Key Bank; Noel Vallejo, CEO, TestOut Corporation; Ryan Westwood, CEO, Outbox Systems; David Williams, Chair, CEO, Fish; Travis Wilson, JD, Jones Waldo Holbrook & McDonough; Art Wing, President, Wing Enterprises, Inc; Rob Witt, Workplace Regional Manager, Fidelity Investments; Jeff Woodbury, Vice President, Woodbury Corporation.

Professors:
Miles and Mary Morris Professor of Entrepreneurship: Peter Robinson Ph.D.
Wally R. Woodbury Professor of Economics: Amir Kia, Ph.D.
Orin R. Woodbury Professor of Leadership and Ethics: Susan Madsen, Ed.D.

Mission Statement

Through exceptional business education, we help students become successful professionals who build our community.

Core Themes - (University Alignment: Student Success, Engagement, Inclusivity, and Seriousness)

1. Delta: Maximize student improvement through engaged learning (E)
2. Placement: Help students obtain and succeed in careers aligned with their goals (SS)
Colleges and Schools

- 3. Scholarship: Produce and promote research that improves business education and practice (S)
- 4. Reach: Serve as many people in our community as we can (I)

Accreditation

The Woodbury School of Business was reaccredited with the Association to Advance Collegiate Schools of Business (AACSB) accreditation in fall 2011. AACSB International Business accreditation is an achievement earned only by programs of the highest caliber. Institutions that earn accreditation confirm their commitment to quality and continuous improvement through a rigorous and comprehensive peer review.

Advisement Center

The Woodbury School of Business Advisement Center provides one-on-one advising throughout a student’s program. Information regarding transfer programs is readily available by contacting departmental advisors in WB 257 of the Woodbury Business Building. Each student should make an appointment to see a Woodbury School of Business advisor early in his/her first semester on campus.

- Advisors:
  - Scott Childs
  - Office: WB 257d
  - Telephone: 801-863-6719
  - Email: childssc@uvu.edu

  - Polly Clauson
  - Office: WB 257b
  - Telephone: 801-863-6482
  - Email: Polly.Clauson@uvu.edu

  - Lisa Giguere
  - Office: WB 257h
  - Telephone: 801-863-6307
  - Email: lisa.giguere@uvu.edu

  - Diana Johnsen
  - Office: WB 257f
  - Telephone: 801-863-8832
  - Email: johnsedi@uvu.edu

  - Clint Martinez
  - Office: WB 257e
  - Telephone: 801-863-5343
  - Email: Martinci@uvu.edu

  - Mignon Nicol
  - Office: WB 257g
  - Telephone: 801-863-8749
  - Email: nicolmi@uvu.edu

  - Kim Wright
  - Office: WB 257a
  - Telephone: 801-863-6890
  - Email: wrightki@uvu.edu

Internships

The Woodbury School of Business encourages students to enroll in internship courses once they have advanced standing (matriculation). Completing between three and six credits of internship is required of many degrees in the Woodbury School of Business. An internship combines classroom theory with related, practical job experience. While enrolled at the university, students select a work environment related to their major. Internship experience serves as a resume builder and assists students in launching their careers following graduation.

A coordinator works closely with students and employers to ensure that the internship is a successful career education experience. The Woodbury School of Business Manager of Career and Corporate Development is:

- Jessica McArthur
  - Office: WB 258
  - Telephone: 801-863-6243
  - Email: businternships@uvu.edu

Admission to the Woodbury School of Business
Students choosing to pursue majors in the Woodbury School of Business should decide early, plan their schedules carefully, be aware of all the requirements, and stay informed about any changes by checking often with advisors in the Woodbury School of Business Advisement Center.

Accessibility to the Woodbury School of Business Courses

All 1000- and 2000-level business courses are open to all UVU students along with selected 3000- and 4000-level courses. Some courses have prerequisites, which must be satisfied. No more than 9 credits of upper-division courses can be taken before a student has been formally matriculated into the UVU Woodbury School of Business.

Repeating Failed Foundation Core Courses

Each business major has foundation core courses. A student will be allowed to repeat a failed foundation core course only twice. If the foundation core course is not passed with a minimum grade of “C-” after the third attempt, the student will not be allowed to apply for advanced standing (matriculation) toward a degree in one of the Woodbury School of Business majors.

Application Requirements for (Matriculation)

To be considered for matriculation in a Woodbury School of Business four-year program, a student must do the following:

- Complete the foundation core courses listed for their major with at least a “C-” grade; Legal Studies majors must have a grade of “C+” or higher. A student will be limited in taking upper-division coursework (3000 level or higher) until these foundation courses are completed.
- IM 2010 and MKTG 2200 require a B- grade.
- Complete matriculation orientation course (CEBU 100).
- Achieve a grade point average (GPA) in business courses of at least 2.5 and an overall GPA of 2.0.
- Make formal application for (matriculation) through a Woodbury School of Business advisor.
- The student will be required to complete the program that is in effect at the time (matriculation) is granted. Exceptions will be handled on a case-by-case basis.

Major Specialization of Courses

After matriculation, the student will be required to complete the remaining courses in their major specialization. See your Woodbury School of Business advisor or the appropriate section of the current catalog for requirements for each major specialization.

Maintenance of Matriculation

Once matriculated, the student must maintain the 2.5 business GPA to remain in the Woodbury School of Business. A student failing below the minimum GPA will be placed on probation for one semester. If the business GPA remains below 2.5 for a second semester, matriculation will be revoked. A student who wishes to continue in the Woodbury School of Business major will be required to retake some classes to bring up the business GPA to at least 2.5 and will be required to apply for reinstatement for matriculation.

A student will be allowed to repeat a failed major specialization course only twice. If the course is not passed with a minimum of “C-” after the third attempt (“C+” for Legal Studies majors), the student will be dropped from the Woodbury School of Business program.

Graduation Requirements

A Bachelor of Science degree in a Woodbury School of Business major may be earned upon the completion of four years of full-time (16 credits per semester) university work. The bachelor degree consists of 120-124 semester credit hours with a minimum of 40 hours upper-division credits. At least 30 of the credit hours earned in the degree must be Woodbury School of Business courses; 10 of these credit hours must be within the last 45 credit hours earned toward completion of the degree. The student pursuing a bachelor degree must also complete the general education requirements listed for the Associate in Science degree. The student must have a minimum 2.5 GPA in all Woodbury School of Business courses and a minimum 2.0 GPA overall for graduation.

The Woodbury School of Business reserves the right to change, at any time, the requirements for graduation and every candidate not yet matriculated into a Woodbury School of Business degree will be required to comply with such changes as far as the uncompleted portion of his/her degree is affected. Any exceptions must be approved by the Dean. In addition courses within degrees may change at any time. Students will be required to complete the revised course requirements even if the changes add credit hours to the original degree.

Whether or not a course is accepted toward degree requirements is determined by the date it was taken and the grade received. For details contact your UVU Woodbury School of Business Advisor or the Woodbury School of Business Assistant Dean.

Credit Policy

1. Obsolete Credit: UVU Woodbury School of Business credit or business transfer credit earned more than ten years earlier than the proposed date of graduation (five years for business computer proficiency) may not be accepted toward requirements for graduation unless validated through taking a challenge examination, completing the next course in a related sequence with a grade of “C” or better, or receiving department chair and assistant dean approval.

2. Waiver/Substitution Requests: Any deviations from the printed UVU Woodbury School of Business graduation requirements must be approved by the appropriate department chair and the assistant dean prior to waiving, substituting, or taking the course(s) in question.

3. Challenge/Experiential Credit: Credit for any course that appears in the current catalog may be awarded to individuals who can prove through appropriate assessment and/or documentation that they have already acquired the equivalent knowledge and/or expertise required for successful completion of that course. See your Woodbury School of Business advisor for details on how to receive challenge credit for a specific course. Students may not challenge a class for which they are or have been enrolled. No more than 25 percent of the minimum credits of challenge/experiential may be applied to a bachelor degree in the Woodbury School of Business.

4. Coop/Internship Credits: Academic credit for cooperative work experience and/or internship may be granted in associate and bachelor degrees. Check with your Woodbury School of Business advisor for the maximum number of coop/internship credits that can be applied to your specific program. Additional coop/internship credits may be taken (but not applied toward graduation) with the approval of the manager of career and corporate development and the assistant dean.

5. Transfer Credits: Students transferring from other colleges or universities within the Utah System of Higher Education (USHE) should consult their Woodbury School of Business advisor to determine which credits will be accepted by UVU. Students wishing to transfer Woodbury School of Business credits from colleges or universities outside the state not covered by the USHE Transfer Credit Guide may need to submit further documentation which allows the Transfer Office, Woodbury School of Business
advisor, department chair, and/or Woodbury School of Business assistant dean to assess the content of courses taken. In the majority of cases, courses taken at institutions accredited by the Association to Advance Collegiate Schools of Business (AACSB) International will be accepted. Only courses with a grade of "C-" or higher are eligible for credit. Classes taken more than 10 years ago may not be accepted but will be evaluated individually.

Application Requirements (Matriculation)

To be considered for matriculation in a Woodbury School of Business four-year program, a student must do the following:

- Complete the foundation core courses listed for their major with at least a "C-" grade; Legal Studies majors must have a grade of "C+" or higher. A student will be limited in taking upper-division coursework (3000 level or higher) until these foundation courses are completed.
- IM 2010 and MKTG 2200 require a B- grade.
- Complete matriculation orientation course (CEBU100)
- Achieve a grade point average (GPA) in business courses of at least a 2.5 and an overall GPA of 2.0.
- Make formal application for (matriculation) through a Woodbury School of Business advisor.
- The student will be required to complete the program that is in effect at the time (matriculation) is granted. Exceptions will be handled on a case-by-case basis.

Maintenance of Matriculation

Once matriculated, the student must maintain the 2.5 business GPA to remain in the Woodbury School of Business. A student falling below the minimum GPA will be placed on probation for one semester. If the business GPA remains below 2.5 for a second semester, matriculation will be revoked. A student who wishes to continue in the Woodbury School of Business major will be required to retake some classes to bring up the business GPA to at least 2.5 and will be required to apply for reinstatement for matriculation. A student will be allowed to repeat a failed major specialization course only twice. If the course is not passed with a minimum of "C-" after the third attempt ("C+" for Legal Studies majors), the student will be dropped from the Woodbury School of Business program.

Degrees Offered

Master of Business Administration

Bachelor of Arts

- Economics
- Finance
- Marketing

Bachelor of Science

Accounting
- General
- Internal Auditing

Business Management
- General Business
- Hospitality Management
- International Business

Economics
Entrepreneurship
Finance
Hospitality Management
Legal Studies
Marketing
Personal Financial Planning

Associate in Science

Accounting
Business Management
Hospitality Management
Legal Studies
Woodbury School of Business—transfer degree

Associate in Applied Science

Accounting
Business Management
Hospitality Management
Legal Studies

Certificate of Completion

Accounting
Business Management

Certificate of Proficiency
Entrepreneurship
Legal Studies
Operations Management

Minor

Accounting
Business Management
Economics
Entrepreneurship
Finance
Internal Audition
Legal Studies
Marketing

Business Computer Proficiency

Most of the degrees offered in the Woodbury School of Business require the student to demonstrate business computer proficiency. Students pursuing most bachelor degrees must complete this proficiency requirement before they can be matriculated. This proficiency can be attained by completing the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher. The prerequisite for IM 2010 is IM 1010. Students can either complete the IM 1010 course with a score of 80 percent or higher or take the exam in the Aculis Testing Center located in CS 612. Students may also complete the Excel Educator course through MyEducator for the IM 2010 course. See your Woodbury School of Business advisor for additional details.

Degree Requirements

See the individual departmental sections in the catalog that follow this Woodbury School of Business section for specific requirements on each degree offered by the individual departments.

The Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah, or it can be completed by students seeking a BS degree at UVU.

Programs

Master of Business Administration

Please see Graduate Studies.

Accounting

• Department Chair: Dr. Stan Jenne
• Office: WB 221
• Telephone: 801-863-6178
• Email: SJenne@uvu.edu

The mission of the Accounting Department is to build a strong learning and growth environment for students to prepare for successful careers in industry, government, and public accounting. We maintain a teaching-focused environment where students can master the fundamental and technical competencies required of professional accountants.

Through our partnering with the business community, students will have opportunities of interactive learning in and out of the classroom. The Accounting Department is committed to assessing current accounting trends and developing specialties within the curriculum to prepare students for careers in those growth fields. Upon completion of an Accounting degree, students should have a combination of skills and abilities including but not limited to leadership, teamwork, communication, analytical reasoning, and lifelong learning.

Finance & Economics

• Department Chair: Dr. Lowell M. Glenn
• Office: WB 215
• Telephone: 801-863-8385
• Email: Lowell.Glenn@uvu.edu

The business world is more competitive today than in past generations. Decision makers understand the increasing importance of getting things right the first time using business models and measurement methods in making those policy decisions. The classes taught in the Department of Finance and Economics are designed to give students the background to make professional business decisions.

The department offers three bachelor degree programs in Economics, Finance, and Personal Financial Planning (PFP). Graduates in economics find employment in a variety of public and private institutions while many go on to graduate education in law, public policy, an MBA and other disciplines. Finance major’s move on to careers in corporate financial management, as investment managers and analysts, in banking and other careers in the finance industry. The business world is more competitive today than in past generations. Decision makers understand the increasing importance of getting things right the first time using business models and measurement methods to make policy decisions. The PFP
Colleges and Schools

program is designed to prepare students for professional careers as fee-for-service certified financial planners. Unlike the other two degrees that offer Bachelor of Arts and Sciences as well as minors and emphases in integrated studies, the PFP program is restricted to a single bachelor degree. Students who complete the PFP degree will in many respects emulate the careers of accountants who work with individuals and organizations in the management of wealth, personal resources, and provide other professional functions. The PFP Program is registered with the Certified Financial Planner Board of Standards, Inc. The classes taught in the Department of Finance and Economics are designed to give students the background they need to make professional business decisions.

Experienced faculty work with students in understanding the theory of their discipline and learning to apply that theory in the pragmatic application of those principles in financial management, economics, statistics, and operations management courses critical to their professional development.

Hospitality Management

• **Program Coordinator:** Doug Miller  
  • Office: WB 203c  
  • Telephone: 801-863-8106  
  • Email: Millerdo@uvu.edu

The Hospitality Management program prepares graduates for employment in one of the fastest growing segments of the nation’s economy. Students are marketable in a wide range of hospitality and tourism areas such as hotel, resort, and motel management; restaurant and institutional food service; event planning; cruise ship management; convention and visitor facilities; and gaming facilities.

For students interested in management positions in the hospitality industry, the Hospitality Management program offers a Bachelor of Science in Hospitality Management. The demand for management staff in this industry is tremendous particularly for those with specialized hospitality management skills.

Legal Studies

• **Department Chair:** Dr. Lowell Glenn  
  • Office: WB 215  
  • Telephone: 801-863-8385  
  • Email: Lowell.Glenn@uvu.edu

The mission of the Department of Legal Studies is to provide educational opportunities that emphasize skills and knowledge that will allow the student to adjust through a lifetime of social change. We recognize that education is vital in developing skills needed for a productive society and essential in promoting the individual’s sense of worth, values, and high ethical standards.

Recognizing the need to increase and improve access to the legal system, the Department of Legal Studies promotes quality legal studies education, develops educational standards, and encourages professional growth in order to prepare graduates to perform a significant role in the delivery of legal services.

The UVU Legal Studies Department paralegal training program is approved by the American Bar Association. The Legal Studies minor does not prepare students for a career as a paralegal and the minor is not approved by the American Bar Association.

Management

• **Department Chair:** Dr. David McArthur  
  • Office: WB 243  
  • Telephone: 801-863-7144  
  • Email: David.McArthur@uvu.edu

Students graduating from the Business Management Department have many opportunities in private industry, government, and entrepreneurship fields. Bachelor of Science degrees are offered with emphases in entrepreneurship, hospitality management, international business, and general business. An Associate in Science degree and an Associate in Applied Science degree are also available.

Faculty in the Business Management Department have real-world expertise that they bring to the classroom. During their program of study students serve an internship in business where they receive actual work experience during their training. Graduates of the UVU business management program are well prepared to work in multiple aspects of business or to go on to graduate school for additional education.

Marketing

• **Department Chair:** Dr. Paul Dishman  
  • Office: WB 203e  
  • Phone: 801-863-7198  
  • Email: PDishman@uvu.edu

For those trained in marketing, career opportunities are available in advertising, brand and product management, customer affairs, industrial marketing, international marketing, marketing management science and systems analysis, marketing research, new product planning, marketing logistics (physical distribution), public relations, purchasing, retail management, internet marketing, and sales and sales management.
Almost a third of all Americans are employed in marketing-related positions. From large corporations to small companies, both in manufacturing and service areas, firms rely on marketers. There is also a growing trend to use marketing in nonprofit organizations, such as colleges, libraries, and hospitals.
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<tr>
<td>Telephone:</td>
<td>801-863-7570</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:Ellen.Draper@uvu.edu">Ellen.Draper@uvu.edu</a></td>
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<td><a href="http://www.uvu.edu/academicoutreach/">www.uvu.edu/academicoutreach/</a></td>
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MISSION STATEMENT

The mission of Academic Outreach is to collaborate with the University community, K-16 alliances, and other community entities in facilitating the development of relevant career and college pathways that support workforce and economic development and inspire a culture of lifelong learning.

Academic Outreach Focus

Academic Outreach is comprised of Concurrent Enrollment, Community and Continuing Education, and the Wasatch Campus. Academic Outreach’s focus is to form and strengthen university relations and partnerships with business and industry, educational institutions, and government agencies in order to meet regional workforce needs and respond to community interests. Additionally, Academic Outreach will work with UVU internal stakeholders, including academic departments and university leadership, to facilitate program enhancement, development, and implementation of credit and non-credit programming from non-credit/credit certificates to baccalaureate to master degrees.

Community and Continuing Education

- Development of community and continuing education programs
- Development and delivery of professional development courses, events, conferences, and workshops
- Oversight of Continuing Education Units (CEUs) for educational program, particularly non-credit programming
- Educational entrepreneurship of UVU
- Workforce and continuing education programming throughout region

Concurrent Enrollment

- Facilitation of high-school partnership programs where students can:
  1. Earn college credit
  2. Take face-to-face or Live interactive college classes at their high school
  3. Become prepared for the higher education experience
- Professional Development for Concurrent Enrollment high school teachers and counselors

Wasatch Campus

- Accounting
- Facilitation with UVU-Orem regarding academic programs and offerings
- Administrative support for faculty, staff, and students, including tutoring center for writing and mathematics and face-to-face and live interactive class support
- Development of academic and Community events in Wasatch and Summit Counties.
Mission Statement
The Department of Accounting at Utah Valley University is to build the strongest possible learning and growth environment for students by:

- Maintaining a teaching-focused, engaged learning environment
- Adding value to each students education by developing essential skills and abilities
- Engaging in scholarly activity among faculty and students
- Assessing current accounting trends and developing specialties
- Partnering with the business community
- Building our reputation within the region

Woodbury School of Business
Advisement Center:
- Office: WB 257
- Telephone: 801-863-8032

DEPARTMENT CHAIR
JENNE, Stanley E Professor

FACULTY
BAILEY, James Professor
BEAN, Ben Professor
BLACK, Katherine D. Associate Professor
CIESLEWICZ, Joshua Assistant Professor
HELQUIST, Joel Associate Professor
JENNE, Stanley E Professor
JOHNSON, Steven D. Associate Professor
ORTEGA, Xiaoli Assistant Professor
SMITH, Kevin Associate Professor
SMITH, Lynn Lecturer
SMITH, Sheldon R. Professor

Course Descriptions
Accounting.......................................................................................................... 515

Degrees & Programs
Accounting, A.A.S.
Requirements
An AAS degree provides students with moderately broad applied knowledge and skills needed to perform well in a business environment. A student will have a basic knowledge of accounting, information systems, and payroll. With the selection of electives, the accounting knowledge can be expanded at the intermediate level. Skills include communication and presentation skills and computer proficiency in a business setting.

Total Program Credits: 65

General Education Requirements: 16 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 2200</td>
<td>Written Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>ACC 1150</td>
<td>Fundamentals of Business Math</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

or

Any approved Behavioral, Social, or Political Science Distribution Course 3

Any approved Biology or Physical Science Distribution Course 3

Any approved Physical Education, Health, Safety, or Environment Course 1

Discipline Core Requirements: 25 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACC 2010</td>
<td>Financial Accounting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ACC 2020</td>
<td>Managerial Accounting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ACC 2100</td>
<td>Payroll Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 2610</td>
<td>Accounting Systems Applications</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 1010</td>
<td>Introduction to Business</td>
<td>3</td>
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<tr>
<td>MGMT 495R</td>
<td>Executive Lecture Series</td>
<td>1</td>
</tr>
<tr>
<td>INFO 3120</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 2390</td>
<td>Professional Business Presentations</td>
<td>3</td>
</tr>
<tr>
<td>IM 2600</td>
<td>Spreadsheet Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 24 Credits

Complete any coursework from the following prefixes: ACC, ECON, FIN, HM, LEGL, MGMT, MKTG 15

Complete three of the following courses: 9

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 3010</td>
<td>Intermediate Accounting I (3.0)</td>
<td></td>
</tr>
<tr>
<td>ACC 3300</td>
<td>Cost Management (3.0)</td>
<td></td>
</tr>
<tr>
<td>ACC 3510</td>
<td>Accounting Information Systems (3.0)</td>
<td></td>
</tr>
<tr>
<td>ACC 3400</td>
<td>Individual Income Tax (3.0)</td>
<td></td>
</tr>
<tr>
<td>IM 2300</td>
<td>Information Management Principles (3.0)</td>
<td></td>
</tr>
<tr>
<td>IM 2100</td>
<td>Document Processing Applications (3.0)</td>
<td></td>
</tr>
<tr>
<td>IM 3700</td>
<td>Database Applications (3.0)</td>
<td></td>
</tr>
<tr>
<td>FIN 1060</td>
<td>Personal Finance (3.0)</td>
<td></td>
</tr>
<tr>
<td>LEGL 3000</td>
<td>Business Law (3.0)</td>
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</table>

Elective Requirements 24

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 3010</td>
<td>Intermediate Accounting I (3.0)</td>
<td></td>
</tr>
<tr>
<td>ACC 3010</td>
<td>Intermediate Accounting I (3.0)</td>
<td></td>
</tr>
<tr>
<td>ACC 3010</td>
<td>Intermediate Accounting I (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 65 semester credits.
2. Overall grade point average of 2.0 or above with a 2.5 GPA in Business courses and a grade of "C-" or higher in all core and elective courses.
3. Residency hours: minimum of 20 credit hours through course attendance at UVU with at least 12 credits of Woodbury School of Business courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
Accounting

Accounting, A.A.S.

Careers:

The AAS degree in accounting will better prepare a student for an entry-level position in a business or office setting. While the student will have a slightly more broad knowledge of accounting than is provided by a certificate of completion, it will not prepare them for a career in accounting.

Related Careers

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

Accounting, A.S.

Requirements

The Associate in Science degree provides a broad business foundation and prepares students for upper-division studies in accounting. Students receive a broad range of theoretical and applied knowledge in the areas of accounting, economics, business law, and quantitative applications.

Total Program Credits: 61

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>36 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors)</td>
<td>4</td>
</tr>
<tr>
<td>or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following: 3

- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)

Complete the following:

- PHIL 2050 Ethics and Values (3.0)
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life (2)

Distribution Courses:

- Biology (3)
- Physical Science (3)
- Additional Biology or Physical Science (3)
- Humanities Distribution- HUM 1010 recommended (3)
- Fine Arts Distribution (3)
- Social/Behavioral Science (3)

Discipline Core Requirements: 25 Credits

- ACC 2010 Financial Accounting (3.0)
- ACC 2020 Managerial Accounting (3.0)
- or ACC 2030 Principles of Accounting (6)
- ECON 2010 Microeconomics (3)
- ECON 2020 Macroeconomics (3)
- LEGL 3000 Business Law (3)
- MGMT 2340 Business Statistics I (3)
- MATH 1100 Introduction to Calculus (4)
- IM 2010 Business Computer Proficiency * (3)
- or Business Computer Proficiency Exam

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall GPA of 2.0 or above with 2.5 GPA or above in Business courses. No grade below “C-“ in Business courses.
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU with at least 12 credits of Woodbury School of Business courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

* Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

Accounting, A.S.

Careers:

With an Associate in Science degree, a student could obtain a basic, entry-level position in a broad range of business-related jobs. These jobs would likely have lower salaries or wages with limited upward mobility as higher-level jobs would require more education.

Related Careers

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

Accounting, Certificate of Completion

Requirements

A certificate of completion introduces students to the knowledge and skills need to perform in a basic business environment. It includes a knowledge of basic business math, accounting, and accounting software. Skills include communication and presentation skills. This is primarily an applied certificate with a brief conceptual background in business.

Total Program Credits: 30

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>24 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 1150 Fundamentals of Business Math</td>
<td>3</td>
</tr>
<tr>
<td>ACC 2010 Financial Accounting (3.0)</td>
<td></td>
</tr>
<tr>
<td>or ACC 2020 Managerial Accounting (3.0)</td>
<td></td>
</tr>
<tr>
<td>or ACC 2030 Principles of Accounting</td>
<td>6</td>
</tr>
<tr>
<td>ACC 2610 Accounting Systems Applications</td>
<td>3</td>
</tr>
</tbody>
</table>
IM 2010  Business Computer Proficiency  3
MGMT 1010  Introduction to Business  3
MKTG 2390  Professional Business Presentations  3
MKTG 2200  Written Business Communication  3
Elective Requirements:  6 Credits
Woodbury School of Business courses (ACC, ECON, FIN, HM, LEGL, MKTG, MGMT prefixes)  6

Graduation Requirements:
1. Minimum of 30 credits required for a Certificate.
2. Overall GPA of 2.0 required for graduation with no grade lower than a "C-" in Woodbury School of Business classes.
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

Accounting, Certificate of Completion

Careers:
A certificate of completion in accounting will prepare a student for a basic, entry-level job in a business office setting.

Related Careers

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

Accounting, Minor

Requirements

A Minor in Accounting will prepare students in any major to speak the language of business. Students will receive extensive coverage of both financial and managerial accounting, with the opportunity to pursue other accounting areas of study including: financial accounting, audit, information systems, or tax.

Total Program Credits: 24

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements:  12 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 2010</td>
<td>Financial Accounting (3.0)</td>
<td></td>
</tr>
<tr>
<td>and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC 2020</td>
<td>Managerial Accounting (3.0)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC 2030</td>
<td>Principles of Accounting</td>
<td>6</td>
</tr>
<tr>
<td>ACC 3010</td>
<td>Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 3300</td>
<td>Cost Management</td>
<td>3</td>
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</table>

Elective Requirements:  12 Credits

Choose 12 credits from the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACC 3020</td>
<td>Intermediate Accounting II (3.0)</td>
<td></td>
</tr>
<tr>
<td>ACC 3400</td>
<td>Individual Income Tax (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Overall grade point average of 2.5 GPA in all Woodbury School of Business courses and no grade lower than a C- in business courses.
2. Completion of GE and specified departmental requirements.

NOTES: Students are responsible for completing all prerequisite courses.

Footnote
* Courses with an asterisk (*) cannot be taken until student is matriculated into a bachelor degree program.

Accounting, Minor

Careers:
A minor in accounting will enhance and add value to any business-related degree by giving the student a greater understanding of the language of business. A more in-depth understanding of accounting will give students an edge in the hiring process and improve their value in the work place.

Related Careers

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

Internal Auditing, Minor

Requirements

The minor in internal auditing is designed to develop students' professional abilities in the areas of risk based auditing, problem solving, ethical reasoning, and communication through an engaged and experiential learning experience. The minor cultivates a wide variety of critical skills to successfully compete in business including strong governance, risk management, and control competencies.

Total Program Credits: 18

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements:  18 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACC 2010</td>
<td>Financial Accounting (3.0)</td>
<td></td>
</tr>
<tr>
<td>ACC 2020</td>
<td>Managerial Accounting (3.0)</td>
<td></td>
</tr>
<tr>
<td>ACC 2030</td>
<td>Principles of Accounting</td>
<td></td>
</tr>
<tr>
<td>ACC 212G</td>
<td>International Internal Auditing</td>
<td></td>
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<tr>
<td>ACC 4130</td>
<td>Case Studies in Internal Auditing</td>
<td></td>
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<tr>
<td>ACC 4510</td>
<td>Information Systems Auditing</td>
<td></td>
</tr>
<tr>
<td>ACC 4800</td>
<td>Fraud Examination and Forensic Accounting</td>
<td></td>
</tr>
</tbody>
</table>

Footnote
* Courses with an asterisk (*) cannot be taken until student is matriculated into a bachelor degree program.
**Graduation Requirements:**

1. Overall grade point average of 2.5 in all Woodbury School of Business courses and no grade lower than a C- in business courses.
2. Completion of GE and specified departmental requirements.

Note: Students are responsible for completing all prerequisite courses. Not available to Accounting majors.

**Internal Auditing, Minor**

**Careers:**

- Internal Auditing
- Compliance
- Risk Management
- Control Management
- Risk Advisory Services

**Related Careers**

- Accountants and Auditors
- Financial Examiners

**Accounting - General Accounting Emphasis, B.S.**

**Requirements**

This degree offers a balanced theoretical and applied approach to study a broad range of business and accounting disciplines. This includes business topics of marketing, finance, law, operations, and strategy. Following a study of the primary accounting disciplines of financial, managerial, audit, information systems, and tax, students can engage in a more specialized study of internal audit, management accounting, tax, or public accounting/graduate school. Students also develop important business skills in communication, critical thinking, team building, and computer applications.

**Total Program Credits: 120**

| General Education Requirements: | 36 Credits |
|--------------------------------|
| ENGL 1010 Introduction to Writing (3.0) | 3 |
| ENGL 1010 Introduction to Writing (3.0) | 3 |
| ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0) | 3 |
| ENGL 2020 Intermediate Writing--Science and Technology (3.0) | 3 |
| MATH 1050 College Algebra (4.0) | 4 |
| An Advanced Placement (AP) Mathematics Test with a score of 3 or higher | |

Complete one of the following: 3 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
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</table>

Complete the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
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</table>

**Distribution Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOL 250</td>
<td>Biology</td>
<td>3</td>
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<tr>
<td>PHYS 250</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 300</td>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 200</td>
<td>Humanities Distribution</td>
<td>3</td>
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<tr>
<td>MATH 1100</td>
<td>Fine Arts Distribution</td>
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<tr>
<td>ECON 200</td>
<td>Macroeconomics (Fulfills the Social/Behavioral Science Distribution)</td>
<td>3</td>
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</table>

**Discipline Core Requirements:**

Business Foundation Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACC 2010</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 2020</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 2030</td>
<td>Principles of Accounting</td>
<td>6</td>
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</table>

Business Computer Proficiency Exam **

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>IM 2600</td>
<td>Spreadsheet Applications</td>
<td>3</td>
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<tr>
<td>MATH 1100</td>
<td>Introduction to Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 2240</td>
<td>Business Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2100</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2200</td>
<td>Business Communication (Complete with B- or higher)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2340</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2390</td>
<td>Professional Business Presentations</td>
<td>3</td>
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</tbody>
</table>

**Business Core Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>LEGL 3000</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3600</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3100</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3450</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4860</td>
<td>Business Strategy Formulation and Implementation</td>
<td>4</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 495R</td>
<td>Executive Lecture Series</td>
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</tr>
<tr>
<td>MGMT 493R</td>
<td>Entrepreneurship Lecture Series</td>
<td>1</td>
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**Accounting Core Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 3010</td>
<td>Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 3020</td>
<td>Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACC 312G</td>
<td>International Auditing and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ACC 3300</td>
<td>Cost Management</td>
<td>3</td>
</tr>
<tr>
<td>ACC 3400</td>
<td>Individual Income Tax</td>
<td>3</td>
</tr>
<tr>
<td>ACC 3510</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
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</table>

**Elective Requirements:**

Complete 13 credits of any course 1000 or higher. 13 credits

**Emphasis Requirements:**

Complete 9 credits from the following Tracks: 9 credits

**Managerial Accounting Track:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 4310</td>
<td>Advanced Management Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 4030</td>
<td>Governmental and Not-For-Profit Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 4420</td>
<td>Corporate Tax</td>
<td>3</td>
</tr>
</tbody>
</table>
**Public Accounting (Graduate School) Track:**

ACC 4020 Advanced Financial Accounting (3.0)
ACC 4110 Auditing (3.0)
ACC 4420 Corporate Tax (3.0)

**Taxation Track:**

ACC 4420 Corporate Tax (3.0)
ACC 4440 Partnership Tax (3.0)
ACC 4460 Estate and Gift Tax (3.0)

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

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**Footnote**

** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher.

* Courses with an asterisk (*) cannot be taken until student is matriculated

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**Accounting - General Accounting Emphasis, B.S.**

The Bachelor of Science in Accounting degree will prepare students for a profession with a wide variety of high demand jobs in the business world. Students will also be prepared to obtain profession designations as certified public accounts (CPA), certified management accounting (CMA), certified internal auditor (CIA), certified fraud examiner (CFE) or certified financial analyst (CFA), which increase earnings potential. Students are also well prepared for graduate programs or law school.

**Related Careers**

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

**Accounting - Internal Auditing Emphasis, B.S.**

The Emphasis in Internal Auditing for the Bachelor of Science in Accounting is designed to develop students' professional abilities in the areas of risk based auditing, problem solving, ethical reasoning, and communication through an engaged and experiential learning experience. The emphasis cultivates a wide variety of critical skills required to successfully compete in business including strong governance, risk management, and control competencies.

**Total Program Credits: 120**

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**Accounting Course Catalog 2015-2016**

Utah Valley University

**Footnote**

** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher.**

* Courses with an asterisk (*) cannot be taken until student is matriculated

---

**Accounting Course Catalog 2015-2016**

Utah Valley University
Accounting

Accounting Core Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 3010</td>
<td>Intermediate Accounting I (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ACC 3020</td>
<td>Intermediate Accounting II (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ACC 312G</td>
<td>International Internal Auditing (3.0)</td>
<td>3</td>
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<tr>
<td>ACC 3300</td>
<td>Cost Management (3.0)</td>
<td>3</td>
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<tr>
<td>ACC 3400</td>
<td>Individual Income Tax (3.0)</td>
<td>3</td>
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<tr>
<td>ACC 3510</td>
<td>Accounting Information Systems (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 13 Credits

- Complete 13 credits of any course 1000 or higher.

Emphasis Requirements: 9 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACC 4130</td>
<td>Case Studies in Internal Auditing (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ACC 4510</td>
<td>Information Systems Auditing (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ACC 4800</td>
<td>Fraud Examination and Forensic Accounting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or ACC 481R</td>
<td>Internship (Subject to approval by internal auditing faculty). Repeat for 3 credits. (2.0)</td>
<td></td>
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</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Footnote

** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher.

* Courses with an asterisk (*) cannot be taken until student is matriculated

Accounting - Internal Auditing Emphasis, B.S.

Careers:

The internal auditing emphasis prepares students for careers in internal auditing, compliance, risk management, control management, and risk advisory services.

Related Careers

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary
Air Force and Army ROTC

Mission Statement

The Wolverine Company educates, trains, and inspires Cadets so each graduate is a commissioned leader of character, committed to living the Soldier’s Creed, competent in the basic skills of their chosen profession and prepared for a lifetime of excellence and service to the Nation as an Officer in the United States Army.

Air Force ROTC

Chair: Captain Brent Johnson
Laura Leseberg

- Office: Wells ROTC Building, Room 380, BYU Campus, see http://map.byu.edu
- Telephone: 801-422-2671
- Email: afrotc@byu.edu

Aerospace Studies (Air Force)

All students in the Air Force ROTC program must attend a four- or six-week field training camp at an Air Force base, usually in the summer between sophomore and junior years.

All Air Force ROTC students are required to attend a leadership laboratory for two hours each week. Practical experience in leadership and command techniques are emphasized during all laboratory periods.

Army ROTC

Chair: Major Mike Kjar
Sergeant First Class Jose Lopez
CPT Ryan Mundy
Captain James Peterson
Sergeant First Class Dorian Williamson
Sergeant First Class Kevin Boughton
Mr. Mathew Giddings

- Office: RC 108, UVU Orem Campus
- Telephone: 801-863-6296 or 6297 or 6299
- Email: armyrotc@uvu.edu

Military Science (Army)

A five-week Advanced Leadership Course is required in the summer between the junior and senior years. All Army ROTC students are required to attend a leadership laboratory for two and one-half hours each week. Practical experience in leadership applications such as small unit tactics, rappelling, weapons familiarization, etc., are emphasized during laboratory periods.

Cadets are also required to participate in scheduled morning/afternoon fitness training.

Military Science Minor (Army)

A minor in Military Science is also available for Army ROTC Cadets. For more information regarding a minor in Military Science, students are encouraged to speak with their UVU Army ROTC instructor in order to program in their schedule the required courses.

Cross-Enrollment Agreement

The University offers ROTC through a cross-enrollment agreement with Brigham Young University (BYU). Compliance with BYU standards, as listed in the current BYU catalog, is an obligation while participating in ROTC activities and at all times on the BYU campus.

General Information on Aerospace Studies (Air Force ROTC) and Military Science (Army ROTC) is given below. More detailed information is available in the appropriate BYU catalog listing.

General Information

The ROTC program is designed to produce highly qualified commissioned officers for the U.S. Air Force, U.S. Army, Army Reserve, and Army National Guard.

The traditional ROTC program extends over four years of college and consists of two phases: a two-year basic course during the freshman and sophomore years, and a two-year advanced course covering the junior and senior years of college.

To receive a commission as a second lieutenant in the U.S. Air Force, U.S. Army, Army Reserve or Army National Guard, students must earn a baccalaureate degree prior to age 30. An exception will be made for prior service, which may extend the age limit to 34. If designated for Air Force pilot or navigator training, all commissioning requirements must be met prior to age 29. Students must be citizens of the United States to be commissioned.

Physical and academic standards for the basic course are the same as for those of the university. To qualify for the advanced program, students must pass an academic and physical examination during the year preceding entry into the advanced course. At the beginning of the fall semester of their junior year, students are sworn into the Air Force or Army Reserves and sign an agreement to complete the last two years of ROTC and to serve on reserve or active duty upon graduation. Students incur no military obligation prior to joining the reserves.

Program of Instruction

The ROTC program is designed to complement the civilian goal of acquiring a baccalaureate degree in a personal course of study while enabling students to develop the knowledge, skills, and attitudes for transition into the United States Armed Forces upon commissioning and to fulfill a military obligation as a reserve or active duty officer. Students do not major in Aerospace Studies or Military Science but may receive a minor in these areas upon their request and depending upon the requirements of the college or university from which the students received their baccalaureate degree.

ROTC military and leadership training provides ROTC graduates with many special skills and experiences which will enable them to compete as leaders in the military and/or business, civic, and community affairs.

Scholarships

ROTC offers many two, three, and four-year scholarships for which students may compete, awarded on merit. The scholarships pay full tuition, textbook costs, lab, and other required college fees, related education expenses such as classroom materials, and a $350-500 per month subsistence allowance. These scholarships are among the finest scholarships offered and can be used at hundreds of other universities and colleges across the United States for students to complete their baccalaureate training at a four-year school. ROTC scholarships are offered on a competitive basis and applications must be submitted through either the Air Force or Army ROTC Detachments. In most cases, deadline for scholarship applications is January of the year prior to enrollment; however, it is suggested that interested parties check with specific ROTC departments since in certain instances deadlines may vary. ROTC scholarships are not affected by other grants, loans, or VEA. To be eligible for a scholarship, a student must be eligible to receive a baccalaureate degree by his or her 30th birthday, be a U.S. Citizen, be at least age 17 at the time the scholarship is to be used, and be willing to serve on active duty for a period of four years if a scholarship is utilized by a student. There are also Reserve Component Scholarships awarded each year for National Guard and Reserve duty.

Woodbury School of Business

Dean: Norman S. Wright
Course Descriptions

Aerospace Studies........................................................................................................517
Military Science..........................................................................................................685
Art and Visual Communications

Name: Art & Visual Communications
Location: GT 535
Telephone: 801-863-8341
Email: owensst@uvu.edu
Web Address: uvu.edu/avc
Chair: Perry Stewart

Mission Statement
To cultivate the creation and appreciation of visual art, we foster creative confidence, critical thinking, and problem-solving skills. We follow these principles to accomplish our mission:

Visual Literacy, Professional Excellence, Creative Diversity, Interdisciplinary Collaboration, and Cultural/Social Responsibility

Visual Literacy We encourage the development of strong visual literacy among students of the visual arts. We support the study of history, culture, technology and trends to this end.

Professional Excellence In preparing visual art students for careers in a broad market, we support and expect excellence and professionalism.

Creative Diversity While teaching techniques, styles, and practices is an important part of our programs, we support a diversity of styles and individual expressions among students in their creative work.

Interdisciplinary Collaboration We support collaboration across the visual arts through multi-disciplinary student and faculty projects. These collaborative efforts may be extended to include other departments within the School of the Arts as well as the entire UVU campus.

Cultural/Social Responsibility We support the study and advancement of the visual arts from local to international levels. We foster understanding to promote artistic freedom and to preserve culture through creative production and historical research.

Art & Visual Communications

Administrative Assistant: Stacie Owens
- Office: GT 535
- Telephone: 801-863-8341
- Email: owensst@uvu.edu

Art Education
- Coordinator: Lori Santos
  - Office: GT 535d
  - Telephone: 801-863-8382
  - Email: lori.santos@uvu.edu

Graphic Design
- Coordinator: Patrick Wilkey
  - Office: GT 402
  - Telephone: 801-863-5302

Illustration

Painting/Drawing
- Coordinator: Nancy Steele-Makasci
  - Office: GT 525b
  - Telephone: 801-863-6933

Photography
- Coordinator: Travis Lovell
  - Office: GT 535b
  - Telephone: 801-863-8262

Sculpture/Ceramics
- Coordinator: Mark Talbert
  - Office: GT 338
  - Telephone: 801-863-6270

Art & Visual Communications Advisement

Advisors: Dane Abegg, Elizabeth Draper, Rae Ann Hall-Ellis
Office: CS 637
Telephone: 801-863-5397
Email: SOAADVISORS@uvu.edu
Hours: Monday - Friday, 9:00 AM - 4:00 PM

Program Description
Utah Valley University’s Department of Art & Visual Communications offers degrees in applied arts, fine arts and art education. Upon completing a degree, students emerge from the program ready to enter careers in graphic design, photography, advertising, printing, animation, illustration, art education, printmaking, sculpture, game development, painting and more. Students can earn a general degree, exploring several areas within the visual arts, or they can specialize, exploring a specific practice in depth to better understand it and/or prepare for employment in that field.

Degrees Offered
Students who want to concentrate on a specific area of art and visual communications can gain professional training at UVU through several specialized degrees:

Associate in Applied Science (A.A.S.)
A two-year degree where students can emphasize in one of three areas.
- Graphic Design
- Illustration
- Photography

Bachelor of Science (B.S.) in Art Education
A four-year degree in which students are trained to teach as art specialists at the secondary level (7–12 grade).

Bachelor of Fine Arts (B.F.A.)
A four-year degree for individuals with above-average abilities, who are looking for a competitive program to hone their skills.
- Graphic Design
- Illustration
- Painting/Drawing
- Photography
- Sculpture/Ceramics
General Art Degrees (B.A., B.S., A.A., A.S.)

Students wanting to study art and visual communications broadly, without emphasizing one particular emphasis area can choose to earn one of four general degrees:

- Bachelor of Arts in Art and Visual Communications (B.A.)
- Bachelor of Science in Art and Visual Communications (B.S.)
- Associate in Art in Art and Visual Communications (A.A.)
- Associate in Science in Art and Visual Communications (A.S.)

Students who elect to earn a bachelor of arts or associate in arts degree are required to complete a foreign language requirement, while those who earn a bachelor of science or associate in science degree have the option to take more electives. All of these degrees allow students to explore a few areas within the department and gain a more well-rounded education in the visual arts. Some of our 1000 level courses also fulfill general education requirements.

Career Opportunities

Our degrees prepare students for various career opportunities, some of which are delineated below.

Fine Arts: Painting/Drawing, Sculpture/Ceramics, Photography

Students are prepared to compete in the arts arena typically via self-employment by promoting their work through galleries, museums, exhibitions and commissions. Some students also choose to pursue graduate studies to further their development or to prepare them to teach in higher education. Areas of study include painting, drawing, printmaking, sculpture, and ceramics.

Applied Arts: Graphic Design, Illustration, Photography

Students are prepared to compete for employment at advertising agencies, design studios, in-house design departments, printing firms, photography studios, gaming developers, animation studios and for freelance consulting work (self-employed). Some students may also choose to further their studies in graduate programs.

Education: BS in Art Education

The Bachelor of Science in Art Education certifies students to teach as an art specialist at the secondary level in public schools and private schools.

Engaged Learning

Students are encouraged to learn by applying what they study in the real world and by taking part in activities outside the classroom.

The department offers many opportunities for students to travel and interact with practicing art professionals. In an annual trip to New York, students visit museums, galleries and artists' studios to learn more about creating art. Students can also apply to attend a five-week study abroad in Italy each summer. The department's four-week art history and photography study abroad program recently placed 8th among Abroad101's list of best Short-Term Programs. In this program, students tour Europe for four weeks, learning about art history and taking advantage of photography opportunities.

Students regularly enter their work in competitions at local, state and national levels, with several students earning awards each year. At UVU's annual art history symposium, students present their research alongside faculty. Every student in the Department of Art & Visual Communications attends an art lecture series, in which artists from around the country visit UVU to present their work, lecture on what they do and occasionally hold a workshop.

AVC Core Grade Requirement

The AVC Core requirements (ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650) must be completed with a B- or higher before being formally admitted to the BS, BA, and BFA programs.

Bachelor of Fine Arts (BFA) Requirements:

This degree is for those with exceptional abilities in art and visual communications. In order to apply to the BFA, students must first meet the core class requirements (consult with your academic advisor for details) in the AVC Department and submit a portfolio for departmental BFA review. Students desiring to participate in the review should submit a letter of intent by Thursday, February 19th to the office of the area coordinator in their particular interest. Portfolios will be due on Thursday, March 5th. Acceptance into the BFA is based on the portfolio review, overall GPA of 2.0 or above with 3.0 GPA or above in ART and ARTH courses. Courses within the student's area of emphasis must be completed with a C grade or above. For graduation with a BFA degree, students must maintain the grade requirements listed above and receive a B grade or above for ART 499R BFA Project. For more information, contact the Academic Advisors. Those not accepted into the program may apply up to 2 additional times for admission. With the exception of the Graphic Design emphasis, a review is held in the fall for students who were not accepted in the spring. Students not accepted into the BFA program, or who are unable to fulfill the above requirements, may still pursue the more general BA/BS degrees.

Graduation Requirement: Portfolio Submission

To ensure that faculty and programs at UVU are adequately teaching and preparing students for professional careers and/or further schooling, the Art and Visual Communications Department has implemented a graduating student portfolio submission. All students completing a degree in the Art and Visual Communications Department are required to submit a portfolio for faculty/professional review prior to graduation. Results are kept confidential and are used only to help modify and improve curriculum and teaching. Consult with your academic advisor for details of deadlines and requirements to make certain all AVC degree graduation requirements are met.

DEPARTMENT CHAIR

STEWARD, Perry Alan Associate Professor

FACULTY

BULE, Steve Professor
DAVIS, Courtney Assistant Professor
DEWITT, Robert B. Professor
FULLMER, Howard W. Assistant Professor
JENSEN, Brian L. Associate Professor
LOVELL, Travis Assistant Professor
PARKINSON, Susan M. Associate Professor
REES, John Assistant Professor
REES, Sean Instructor
SANTOS, Lori Assistant Professor
SEEGMILLER, Don Assistant Professor
SMITH, Rand Associate Professor
STEELE-MAKASCI, Nancy Associate Professor
STEWART, Perry Alan Associate Professor
TALBERT, Mark Associate Professor
VINCENT, Marcus A. Associate Professor
WILKEY, Patrick Associate Professor

Course Descriptions

Art.........................................................................................................................522
Art History.........................................................................................................529

Degrees & Programs

Art and Visual Communications - Design/Illustration Emphasis, A.A.S.

Requirements

The Applied Associate in Science is a two-year work-ready degree that helps prepare students for entry level jobs within the illustration industry. This degree and credits earned can be used to further their studies in a Bachelor of Fine Arts or other programs.

Total Program Credits: 63
General Education Requirements: 16 Credits

- ENGL 1010 Introduction to Writing 3
- MAT 1010 Intermediate Algebra (4.0) *
- or ACC 1150 Fundamentals of Business Math * 3
- Social or Behavioral Science 3
- Biology or Physical Science 3
- P.E. or Health 1
- ARTH 2710 History of Art to the Renaissance (3.0)
- or ARTH 2720 History of Art from the Renaissance 3

Discipline Core Requirements: 15 Credits

- ART 1050 Photography I 3
- ART 1110 Drawing I 3
- ART 1120 2D Design 3
- ART 1130 3 D Design 3
- ART 1400 Graphic Computer Applications 3

Emphasis Requirements: 20 Credits

- ART 1210 Drawing for Illustration 3
- ART 2220 Imagination and Visual Literacy 3
- ART 2230 Illustrative Media and Techniques I 3
- ART 2240 Illustrative Media and Techniques II 3
- ART 2630 Painting I (3.0)
- or ART 1650 Watermedia I 3
- ART 2640 Painting II (3.0)
- or ART 2650 Watermedia II 3
- ART 200R AVC Lecture Series 2

Emphasis Elective Requirements: 12 Credits

Complete 12 credits of ART/ARTH electives. Students are STRONGLY ADVISED to fulfill this requirement from the following courses:

- ART 2270 Anatomy and Figure Structure (3.0)
- ART 3210 Narrative Illustration (3.0)
- ART 3220 Conceptual Illustration (3.0)
- ART 327R Rendering the Human Head (3.0)

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Portfolio Submission.

Footnotes
*See AVC advisor

Art and Visual Communications - Design/Illustration Emphasis, A.A.S.

Careers:

Students are prepared to compete for production design/entry level employment at advertising agencies, design studios, in-house design departments, publishing firms, printing firms, and for freelance consulting work (self-employed). The types of job responsibilities could include pre-press printing, logo design, web and interactive design, digital and traditional publishing, and motion design.

Related Careers
- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Visual Communications - Graphic Design Emphasis, A.A.S.

Requirements

The Applied Associate in Science is a two-year work-ready degree that helps prepare students for entry level jobs within the Illustration industry. This degree and credits earned can be used to further their studies in a Bachelor of Fine Arts or other programs.

Total Program Credits: 63

Art and Visual Communications - Design/Illustration Emphasis, A.A.S.

Careers:

Students are prepared to compete for production design/entry level employment at advertising agencies, design studios, in-house design departments, publishing firms, printing firms, and for freelance consulting work (self-employed). The types of job responsibilities could include pre-press printing, logo design, web and interactive design, digital and traditional publishing, and motion design.

Related Careers
- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Visual Communications - Graphic Design Emphasis, A.A.S.

Requirements

The Applied Associate in Science is a two-year work-ready degree that helps prepare students for entry level jobs within the Illustration industry. This degree and credits earned can be used to further their studies in a Bachelor of Fine Arts or other programs.

Total Program Credits: 63

Art and Visual Communications - Design/Illustration Emphasis, A.A.S.

Careers:
Art and Visual Communications

3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Portfolio Submission.

Footnotes
* See AVC advisor

Art and Visual Communications - Graphic Design Emphasis, A.A.S.

Careers

Students are prepared to compete for production design/entry level employment at advertising agencies, design studios, in-house design departments, publishing firms, printing firms, and for freelance consulting work (self-employed). The types of job responsibilities could include pre-press printing, logo design, web and interactive design, digital and traditional publishing, and motion design.

Related Careers

• Art, Drama, and Music Teachers, Postsecondary
• Commercial and Industrial Designers
• Graphic Designers
• Set and Exhibit Designers
• Designers, All Other

Art and Visual Communications - Photography Emphasis, A.A.S.

Requirements

The Applied Associate in Science is a two-year work-ready degree that helps prepare students for entry level jobs within the photography industry. These could include serving as a photographer's assistant, free-lance work in areas such as advertising, stock images, weddings, documentary, portraiture etc. Entry level jobs at in-house photography departments or studios are also possibilities. Students may also choose to promote their work to galleries, museums, exhibitions, commissions.

Related Careers

• Art, Drama, and Music Teachers, Postsecondary
• Commercial and Industrial Designers
• Graphic Designers
• Set and Exhibit Designers
• Designers, All Other

Art and Visual Communications, A.A.

Requirements

Students who elect to earn a bachelor of arts or associate of arts degree are required to complete a foreign language requirement, while those who earn a bachelor of science or associate of science degree have the option to take more electives. All of these degrees allow students to explore a few areas within the department and gain a more well-rounded education in the visual arts.

Total Program Credits: 61

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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</tr>
<tr>
<td>MAT 1010</td>
<td>Intermediate Algebra (4.0) *</td>
<td>3</td>
</tr>
<tr>
<td>or ACC 1150</td>
<td>Fundamentals of Business Math *</td>
<td>3</td>
</tr>
<tr>
<td>Social or Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Biology or Physical Science</td>
<td></td>
<td>3</td>
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<td>P.E. or Health</td>
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<tr>
<td>ARTH 2710</td>
<td>History of Art to the Renaissance (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or ARTH 2720</td>
<td>History of Art from the Renaissance</td>
<td>3</td>
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Discipline Core Requirements: 15 Credits

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<tr>
<th>Course</th>
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<tr>
<td>ART 1050</td>
<td>Photography I</td>
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<tr>
<td>ART 1110</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1120</td>
<td>2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 1130</td>
<td>3 D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 1400</td>
<td>Graphic Computer Applications</td>
<td>3</td>
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</table>

Emphasis Requirements: 20 Credits

<table>
<thead>
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<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ART 1790</td>
<td>Dark Room Techniques</td>
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<tr>
<td>ART 2700</td>
<td>Photography II</td>
<td>3</td>
</tr>
<tr>
<td>ART 2710</td>
<td>Documentary Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 2720</td>
<td>Color Photography</td>
<td>3</td>
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<tr>
<td>ART 2730</td>
<td>Photographic Lighting I</td>
<td>3</td>
</tr>
</tbody>
</table>

Emphasis Elective Requirements: 12 Credits

Complete 12 credits of any ART/ARTH courses not previously used. Students are STRONGLY ADVISED to fulfill part of this requirement with the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1790</td>
<td>Fine Art Photography (3.0)</td>
<td></td>
</tr>
<tr>
<td>ART 2700</td>
<td>Advanced Digital Imaging (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Portfolio Submission.

Footnotes
* See AVC advisor

Art and Visual Communications - Photography Emphasis, A.A.S.

Careers

The Applied Associate in Science is a two-year work-ready degree that helps prepare students for entry level jobs within the photography industry. These could include serving as a photographer's assistant, free-lance work in areas such as advertising, stock images, weddings, documentary, portraiture etc. Entry level jobs at in-house photography departments or studios are also possibilities. Students may also choose to promote their work to galleries, museums, exhibitions, commissions.

Related Careers

• Art, Drama, and Music Teachers, Postsecondary
• Commercial and Industrial Designers
• Graphic Designers
• Set and Exhibit Designers
• Designers, All Other

Art and Visual Communications, A.A.

Requirements

Students who elect to earn a bachelor of arts or associate of arts degree are required to complete a foreign language requirement, while those who earn a bachelor of science or associate of science degree have the option to take more electives. All of these degrees allow students to explore a few areas within the department and gain a more well-rounded education in the visual arts.

Total Program Credits: 61

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td></td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
<td></td>
</tr>
</tbody>
</table>
Complete one of the following: 3

- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3
- HLTH 1100 Personal Health and Wellness 2
  or  PES 1097 Fitness for Life (2.0)

Distribution Courses:

- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Humanities Distribution 3
- ARTH 2710 History of Art to the Renaissance 3
- Social/Behavioral Science 3

Discipline Core Requirements: 18 Credits

- ART 1110 Drawing I 3
- ART 1120 2D Design 3
- ART 1130 3D Design 3
- ART 1400 Graphic Computer Applications 3
- ARTH 2720 History of Art from the Renaissance 3

Complete 3 credits from one of the following: 3

- ART 1050 Photography I (3.0)
- ART 1210 Drawing for Illustration (3.0)
- ART 1350 Ceramics I (3.0)
- ART 1420 Introduction to Graphic Design (3.0)
- ART 1650 Watermedia I (3.0)

Elective Requirements: 8 Credits

- Complete 8 credits of the same Foreign Language 8

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Portfolio Submission.
6. For the AA degree, completion of 8 credit hours of course work from one language

Art and Visual Communications, A.A. Careers

Students can use this degree as a stepping stone to 4-year programs both within and outside of the Art and Visual Communications department.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Visual Communications, A.S. Requirements

Students who elect to earn a bachelor of arts or associate of arts degree are required to complete a foreign language requirement, while those who earn a bachelor of science or associate of science degree have the option to take more electives. All of these degrees allow students to explore a few areas within the department and gain a more well-rounded education in the visual arts.

Total Program Credits: 60

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following: 3

- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3
- HLTH 1100 Personal Health and Wellness 2
  or  PES 1097 Fitness for Life (2.0)

Distribution Courses:

- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Humanities Distribution 3
- ARTH2710 History of Art to the Renaissance 3
- Social/Behavioral Science 3

Discipline Core Requirements: 18 Credits

- ART 1110 Drawing I 3
- ART 1120 2D Design 3
- ART 1130 3D Design 3
- ART 1400 Graphic Computer Applications 3
- ARTH 2720 History of Art from the Renaissance 3

Complete 3 credits from one of the following: 3

- ART 1050 Photography I (3.0)
Art and Visual Communications

ART 1210 Drawing for Illustration (3.0)
ART 1350 Ceramics I (3.0)
ART 1420 Introduction to Graphic Design (3.0)
ART 1650 Watermedia I (3.0)
Elective Requirements: 7 Credits
Complete a minimum of 7 credits from any ART/ARTH Course not already required. Courses relative to the type of Bachelors Degree you plan to pursue are recommended. (See department advisor for appropriate courses.)

Graduation Requirements:
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Portfolio Submission.

Art and Visual Communications, A.S.

Careers

Students can use this degree as a stepping stone to 4-year programs both within and outside of the the AVC department.

Related Careers

• Art, Drama, and Music Teachers, Postsecondary
• Commercial and Industrial Designers
• Graphic Designers
• Set and Exhibit Designers
• Designers, All Other

Art History, Minor

Requirements

Because art history is cross-disciplinary by nature, a minor in art history would compliment almost any degree, whether within or outside of the arts. The minor requires 18 credits of art history courses, including the survey classes Art to and from the Renaissance, as well as four upper division electives, ranging from ancient to contemporary art history. The minor creates a more diverse skill set for students of the visual arts, as well as a more culturally rich educational experience for students outside of the arts.

Total Program Credits: 18
Discipline Core Requirements: 6 Credits
ARTH 2710 History of Art to the Renaissance 3
ARTH 2720 History of Art from the Renaissance 3
Elective Requirements: 12 Credits
Choose 12 credits from the following: 12
ARTH 3010 History of Design and Visual Arts (3.0)
ARTH 3015 Ancient Art of Egypt and the Near East (3.0)
ARTH 3020 Classical Art and Architecture History (3.0)
ARTH 3030 Medieval Art and Architecture History (3.0)
ARTH 3040 Renaissance Art History (3.0)
ARTH 3050 Baroque Art and Architecture History (3.0)
ARTH 3060 Nineteenth-Century Art History (3.0)
ARTH 3070 Modern Art and Architecture History (3.0)
ARTH 3080 History of Architecture (3.0)
ARTH 309G Introduction to Non Western Ancient Art (3.0)
ARTH 3100 History of American Art and Architecture (3.0)
ARTH 3120 History of Contemporary Art (3.0)
ARTH 3200 The History of Photography (3.0)
or any other advisor approved upper division courses.

Careers

This degree creates a more diverse skill set for careers related to the visual arts, as well as a more culturally rich knowledge base for careers outside the visual arts.
### Art and Visual Communications

#### Related Careers
- Art, Drama, and Music Teachers, Postsecondary
- Archivists
- Curators
- Museum Technicians and Conservators

#### Art Education, B.S.

##### Requirements
The Bachelor of Science in Art Education prepares students to qualify for teaching licensure for 7–12th grade. Curriculum is designed to give students a background in general education, as well as secondary education. Students can also focus on a single studio area within visual arts such as painting/drawing, sculpture/ceramics, illustration or printmaking.

**Total Program Credits: 120**

#### Matriculation Requirements:
Students will apply for formal admission to the Secondary Education and the AVC Art Education program in the semester prior to the beginning of their junior year. Admission criteria include:

1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read/Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass LiveScan Criminal Background Check.
6. Pass a portfolio review with AVC Department Art Education Program, and submit an application to the art education program with a pre-teaching statement concurrent with their Secondary Education program application.

#### General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HILTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

**Distribution Courses:**

- Biology 3
- Physical Science 3

#### Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1050</td>
<td>Photography I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1110</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1120</td>
<td>2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 1130</td>
<td>3 D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 1400</td>
<td>Graphic Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>ART 1650</td>
<td>Watermedia I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2630</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2640</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>ART 3500</td>
<td>Secondary Art Education Methods I</td>
<td>3</td>
</tr>
<tr>
<td>ART 3510</td>
<td>Secondary Art Education Methods II</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 2710</td>
<td>History of Art to the Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 2720</td>
<td>History of Art from the Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ART 200R</td>
<td>AVC Lecture Series (must be repeated)</td>
<td>2</td>
</tr>
<tr>
<td>ART 2110</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>or ART 2270</td>
<td>Anatomy and Figure Structure</td>
<td></td>
</tr>
</tbody>
</table>

One upper-division ARTH classes 3

One studio elective 2000 or higher within studio emphasis area. Choose from drawing, painting, printmaking, illustration, and ceramics/sculpture. 3

Two upper-division Studio courses in One Emphasis Area Choose From: Drawing, Painting, Printmaking, Illustration, or Ceramics / Sculpture. 6

#### Prerequisite Secondary Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSP 3400</td>
<td>Exceptional Students</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Secondary Education Licensure Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSC 3000</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 3050</td>
<td>Foundations of American Education</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 3250</td>
<td>Instructional Media</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4200</td>
<td>Classroom Management I</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4440</td>
<td>Content Area Literacies</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4250</td>
<td>Classroom Management II</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 445S</td>
<td>Multicultural Instruction ESL</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4550</td>
<td>Secondary Curriculum Instruction and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4850</td>
<td>Student Teaching--Secondary</td>
<td>10</td>
</tr>
</tbody>
</table>

#### Graduation Requirements:

1. Completion of a minimum of 120 semester credits, with a minimum of 40 credits of upper division credit.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Completion of GE and specified departmental requirements.
4. Successful completion of at least one Global/Intercultural course.
# Art and Visual Communications

## Art Education, B.S.

### Careers

Teaching art in a public, private, or charter school, K-12 is the most traditional way of using an Art Education degree. Other options students might consider include: teaching online, teaching preschool (or daycare), teaching private lessons to adults or children, teaching art at an after-school program, running education programs and teaching classes at art museums, starting a non-profit arts organization, teaching at non-traditional organization, being a guest artist or teacher, tutoring, teaching assistant, substitute teaching, retail craft coordinator, writing about art, or consultant for art supply catalog or store.

### Related Careers

- Education Teachers, Postsecondary
- Art, Drama, and Music Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

## Art History, B.A.

### Requirements

The Bachelors of Art in Art History degree at UVU offers a strong foundation in the study of art history and the liberal arts, with an emphasis on both intellectual and practical skills. The department offers an array of art history courses on topics ranging from ancient culture to contemporary art, as well as specialized courses on such relevant topics as museum studies and arts management.

### Total Program Credits: 120

#### General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010  Introduction to Writing</td>
<td>3</td>
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<tr>
<td>ENGL 2010  Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### One of the following: 3 credits

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030  Quantitative Reasoning</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1040  Introduction to Statistics</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1050  College Algebra</td>
<td>4.0</td>
</tr>
</tbody>
</table>

#### One of the following: 3 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST 2700  US History to 1877</td>
<td>3.0</td>
</tr>
<tr>
<td>and HIST 2710  US History since 1877</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 1700  American Civilization</td>
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<tr>
<td>HIST 1740  US Economic History</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 1000  American Heritage</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 1100  American National Government</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### Complete the following: 3 credits

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PHIL 2050  Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100  Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097  Fitness for Life</td>
<td>2.0</td>
</tr>
</tbody>
</table>

#### Distribution Courses: 33 Credits

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution (fulfilled with Foreign Language 2020/2020)</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Discipline Core Requirements: 51 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Art Studio Core: Complete one of the following: 3 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1020  Basic Drawing for Non-Majors</td>
<td>3.0</td>
</tr>
<tr>
<td>ART 1050  Photography I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART 1120  2D Design</td>
<td>3.0</td>
</tr>
<tr>
<td>ART 1130  3D Design</td>
<td>3.0</td>
</tr>
<tr>
<td>ART 1340  Sculpture I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART 1350  Ceramics I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART 1650  Watermedia I</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### Art History foundation core: complete the following: 9 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 2710  History of Art to the Renaissance</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 2720  History of Art from the Renaissance</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 2800  Introduction to Art History Research and Methodology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### Art History Upper Division: complete eleven courses from the following: 33 credits

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ARTH 3010  History of Design and Visual Arts</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3015  Ancient Art of Egypt and the Near East</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3020  Classical Art and Architecture History</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3030  Medieval Art and Architecture History</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3040  Renaissance Art History</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3050  Baroque Art and Architecture History</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3060  Nineteenth-Century Art History</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3070  Modern Art and Architecture History</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3080  History of Architecture</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 309G  Introduction to Non Western Ancient Art</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3100  History of American Art and Architecture</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3120  History of Contemporary Art</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3200  The History of Photography</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3300  Introduction to Museum Studies</td>
<td>3.0</td>
</tr>
<tr>
<td>ARTH 3400  Arts Management</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### Seminars: complete a minimum of two: 6 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 391R  Art History Seminar</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### Elective Requirements: 33 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. One Foreign Language</td>
<td>12</td>
</tr>
<tr>
<td>2. Complete any courses from Humanities, History, Music, Philosophy, English, Art History (at least four courses must be 3000 level). The major adviser will have a list of approved courses.</td>
<td>21</td>
</tr>
</tbody>
</table>

#### Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above and a grade point average of 3.0 (B) or above in all ARTH courses.
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.
6. Portfolio Submission.
Art History, B.A.

**Careers**

Art historians preserve ideas and artifacts for future generations, and they teach others to appreciate art, culture, and cultural history. The Bachelors of Art in Art History degree helps students prepare for a range of arts-related jobs, including art dealership, art directorship, art education, and work in museums and galleries. It also provides the necessary foundation for graduate studies in art history, which in turn, prepares one for a career in post-secondary teaching, museum curatorship, and museum directorship. Finally, the degree helps students prepare for graduate work in correlated fields, such as art restoration, arts management, library studies, international business, and legal studies.

**Related Careers**

- Art, Drama, and Music Teachers, Postsecondary
- Archivists
- Curators
- Museum Technicians and Conservators

Art and Visual Communications - Graphic Design Emphasis, B.F.A.

**Requirements**

Situated in the heart of the “Silicon Slopes,” UVU’s graphic design program is uniquely situated to offer students cutting-edge learning, internship, and job-placement opportunities. As students use the latest software to practice communicating creatively using typography and imagery, they learn to approach problem solving from marketing and artistic standpoints that resonate with target audiences. Courses emphasize creative, concept-intensive communication, and effective design implementation in both print and interactive design.

**Total Program Credits: 120**

Matriculation Requirements:

1. AA, AS, or AAS Degree or equivalent in Art and Visual Communication or advisor approval
2. Portfolio Review

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0) 3

Complete one of the following: 3

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3

- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3
- HLTH 1100 Personal Health and Wellness (2.0)

Emphasis Requirements: 50 Credits

- ART 1410 Typography I 3
- ART 1420 Introduction to Graphic Design 3
- ART 2400 Production Design 3
- ART 2430 Branding I 3
- ART 2440 Motion Graphics I 3
- ART 2480 UI/UX Design I 3
- ART 2490 Portfolio I 3
- ART 341R Typography II 3
- ART 343R Branding II 3
- ART 344R Motion Graphics II 3
- ART 346R UI/UX Design II 3
- ART 4490 Portfolio II 3
- ART 481R Art and Visual Communications Internship 2

Complete 12 additional credits from the following: 12

- ART 3270 Digital Illustration (3.0)
- ART 341R Typography II (3.0)
- ART 343R Branding II (3.0)
- ART 344R Motion Graphics II (3.0)
- ART 346R UI/UX Design II (3.0)
- ART 443R Special Topics in Graphic Design (3.0)
- ART 481R Art and Visual Communications Internship (1.0)
- ARTH 3010 History of Design and Visual Arts (3.0)

Emphasis Elective Requirements: 9 Credits

Distribution Courses:

- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Humanities Distribution 3
- ARTH 2710 History of Art to the Renaissance 3
- Social/Behavioral Science 3

Complete 3 credits from one of the following: 3

- ART 1050 Photography I (3.0)
- ART 1210 Drawing for Illustration (3.0)
- ART 1350 Ceramics I (3.0)
- ART 1420 Introduction to Graphic Design (3.0)
- ART 1650 Watermedia I (3.0)
**Art and Visual Communications**

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits.
2. Overall GPA of 2.0 or above with 3.0 GPA or above in ART & ARTH courses. Courses within the student's area of emphasis must be completed with a C grade or above.
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. 4 Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio submission required during senior year.
7. Successful completion of at least one Global/Intercultural course.

**Footnotes**

* Minimum grade of B- required.

**Art and Visual Communications - Graphic Design Emphasis, B.F.A.**

**Careers**

Students are prepared to compete for employment at advertising agencies, design studios, in-house design departments, publishing firms, printing firms, and for freelance consulting work (self-employed). Some students may also choose to further their studies in graduate programs. The types of job responsibilities could include branding/identity design, web and interactive design, information design and data visualization, digital and traditional publishing, advertising design, and motion design.

**Related Careers**

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

**Art and Visual Communications - Illustration Emphasis, B.F.A.**

**Requirements**

The program is ideal for students wanting to pursue careers in traditional illustration, digital illustration, or animation. In addition to working with faculty who are professionals in their fields, students have access to the best software in the industry. Courses in figure drawing, children's book illustration, anatomy and figure structure, flash animation, 3-D computer rendering, and advanced illustration are just a few of the classes available to students. The courses offer a well-rounded and practical learning experience. Students in the illustration program benefit from interaction with instructors who are nationally known professional illustrators.

**Total Program Credits: 120**

**Matriculation Requirements:**

1. AA, AS, or AAS Degree or equivalent in Art and Visual Communication or advisor approval
2. Portfolio Review

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

**Course Catalog 2015-2016 Utah Valley University**
ART 2270 Anatomy and Figure Structure 3
ART 3210 Narrative Illustration 3
ART 3220 Conceptual Illustration 3
ART 327R Rendering the Human Head 3
ART 361R Figure Drawing 3
ART 421R Advanced Illustration 3
ART 470R Advanced Figure Drawing 3
ARTH 3110 The History of Illustration 3

Emphasis Elective Requirements: 20 Credits

Take an additional 12 credits from the classes below. 12
ART 324R Children's Book Illustration (3.0)
ART 328R Painting the Human Head (3.0)
ART 364R Figure Painting (3.0)
ART 323R 3-D Computer Modeling (3.0)
ART 325R Flash Animation for Illustration (3.0)
ART 326R Digital Painting for Illustration II (3.0)
ART 327R Digital Illustration (3.0)
ART 423R 3-D Computer Rendering (3.0)
ART 425R Concept Design I (3.0)
ART 427R Concept Design II (3.0)
ART 429R 3D Illustration (3.0)

Complete any ART/ARTH courses not already used (4 credits must be upper division). 8

Graduation Requirements:
1. Completion of a minimum of 120 semester credits.
2. Overall GPA of 2.0 or above with 3.0 GPA or above in ART & ARTH courses. Courses within the student's area of emphasis must be completed with a C grade or above.
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. 4 Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio submission required during senior year.
7. Successful completion of at least one Global/Intercultural course.

Footnotes
* Minimum grade of B- required

Art and Visual Communications - Illustration Emphasis, B.F.A.

Careers
Students are prepared to compete for employment creating concepts, illustrations, backgrounds, textures, and more in the areas of gaming development, animation, and for freelance consulting work (self-employed) creating illustrations for books (children's, graphic novels, etc.), magazines (both traditional and online), storyboarding, advertising. Some students may also choose to further their studies in graduate programs. Many employment opportunities will be a combination of freelance, part time employment, and/or full time employment. For example, a concept artist may be in a full time position for the duration of a large project but may freelance or be employed part time on smaller similar projects.

Related Careers
- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Visual Communications - Painting and Drawing Emphasis, B.F.A.

Requirements
Within the painting/drawing program, students emphasize one of four areas: drawing, watermedia, painting, or printmaking. In their senior year, B.F.A. students receive one-on-one instruction from the professor of their choice. Students explore their personal artistic identity while learning the rigor and attention to detail needed to put together a solo exhibition as their culminating experience.

Total Program Credits: 120

Matriculation Requirements:
1. AA, AS, or AAS Degree or equivalent in Art and Visual Communication or advisor approval
2. Portfolio Review

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (recommended for Social Science majors) (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)</td>
<td>4</td>
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</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 2710</td>
<td>History of Art to the Renaissance</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>
Discipline Core Requirements: 26 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1110</td>
<td>Drawing I *</td>
<td>3</td>
</tr>
<tr>
<td>ART 1120</td>
<td>2D Design *</td>
<td>3</td>
</tr>
<tr>
<td>ART 1130</td>
<td>3D Design *</td>
<td>3</td>
</tr>
<tr>
<td>ART 1400</td>
<td>Graphic Computer Applications *</td>
<td>3</td>
</tr>
<tr>
<td>ART 200R</td>
<td>AVC Lecture Series (Must be taken 2 times)</td>
<td>2</td>
</tr>
<tr>
<td>ART 499R</td>
<td>BFA Project (must be taken in two consecutive semesters)</td>
<td>6</td>
</tr>
<tr>
<td>ARTH 2720</td>
<td>History of Art from the Renaissance</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete 3 credits from one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ART 1050</td>
<td>Photography I (3.0)</td>
</tr>
<tr>
<td>ART 1210</td>
<td>Drawing for Illustration (3.0)</td>
</tr>
<tr>
<td>ART 1350</td>
<td>Ceramics I (3.0)</td>
</tr>
<tr>
<td>ART 1420</td>
<td>Introduction to Graphic Design (3.0)</td>
</tr>
<tr>
<td>ART 1650</td>
<td>Watermedia I (3.0)</td>
</tr>
</tbody>
</table>

Emphasis Requirements: 33 Credits

Students emphasizing a 2-D area complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1650</td>
<td>Watermedia I</td>
</tr>
<tr>
<td>ART 2110</td>
<td>Drawing II</td>
</tr>
<tr>
<td>ART 2620</td>
<td>Color Theory</td>
</tr>
<tr>
<td>ART 2630</td>
<td>Painting I</td>
</tr>
<tr>
<td>ART 2640</td>
<td>Painting II</td>
</tr>
<tr>
<td>ART 2650</td>
<td>Watermedia II</td>
</tr>
<tr>
<td>ART 2680</td>
<td>Printmaking I</td>
</tr>
<tr>
<td>ART 367R</td>
<td>Printmaking II</td>
</tr>
<tr>
<td>ARTH 3070</td>
<td>Modern Art and Architecture History</td>
</tr>
</tbody>
</table>

Complete two classes from the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ARTH 3020</td>
<td>Classical Art and Architecture History (3.0)</td>
</tr>
<tr>
<td>ARTH 3030</td>
<td>Medieval Art and Architecture History (3.0)</td>
</tr>
<tr>
<td>ARTH 3040</td>
<td>Renaissance Art History (3.0)</td>
</tr>
<tr>
<td>ARTH 3050</td>
<td>Baroque Art and Architecture History (3.0)</td>
</tr>
<tr>
<td>ARTH 3060</td>
<td>Nineteenth-Century Art History (3.0)</td>
</tr>
</tbody>
</table>

Emphasis Elective Requirements: 26 Credits

Complete one specialization for a total of 9 credits. 9

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>ART 311R</td>
<td>Drawing III (may be taken twice) (3.0)</td>
</tr>
<tr>
<td>ART 411R</td>
<td>Drawing IV (may be taken twice) (3.0)</td>
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</tbody>
</table>

Watermedia

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ART 365R</td>
<td>Watermedia III (may be taken twice) (3.0)</td>
</tr>
<tr>
<td>ART 465R</td>
<td>Watermedia IV (may be taken twice) (3.0)</td>
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</table>

Painting

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ART 363R</td>
<td>Painting III (may be taken twice) (3.0)</td>
</tr>
<tr>
<td>ART 463R</td>
<td>Painting IV (may be taken twice) (3.0)</td>
</tr>
</tbody>
</table>

Printmaking

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<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 368R</td>
<td>Printmaking III (may be taken twice) (3.0)</td>
</tr>
<tr>
<td>ART 468R</td>
<td>Printmaking IV (may be taken twice) (3.0)</td>
</tr>
</tbody>
</table>

Complete 9.0 elective credits from upper-division Painting/ Drawing 2D courses not previously taken. 9

Complete any ART/arth courses not already used (4 credits must be upper division) 8

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall GPA of 2.0 or above with 3.0 GPA or above in ART & ARTH courses. Courses within the student's area of emphasis must be completed with a C grade or above.
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. 4 Residency hours–minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio submission required during senior year.
7. Successful completion of at least one Global/Intercultural course.

Footnotes

* Minimum grade of B- required.

Art and Visual Communications - Painting and Drawing Emphasis, B.F.A.

Careers

Careers:

Students are prepared to compete in the arts arena typically via self-employment by promoting their work through galleries, museums, exhibitions, commissions, fairs and festivals. Other opportunities include teaching private lessons and working in related fields in museums and galleries. Some students also choose to pursue graduate studies to further their development or to prepare them to teach in higher education. Areas of study include painting, drawing, printmaking.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Visual Communications - Photography Emphasis, B.F.A.

Requirements

UVU’s photography program teaches the language of photography. Students will take courses to diversify their skill set in the creation and appreciation of different approaches to photography. They will work with film, historic photographic processes, and cutting edge digital technology. Students learn about and work in commercial and fine art environments. They will be taught working methods in the darkroom, studio lighting techniques, motion, and digital manipulation. The photo program emphasizes a hands-on and engaged approach. We actively look for opportunities to get our students on location and into real world scenarios through internships, study abroad programs, service oriented programs, and classes taught off campus.

Total Program Credits: 120

Matriculation Requirements:

1. AA, AS, or AAS Degree or equivalent in Art and Visual Communication or advisor approval
2. Portfolio Review

General Education Requirements: 35 Credits

<table>
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</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
</tr>
</tbody>
</table>

Footnotes

1. Successful completion of at least one Global/Intercultural course.

Art and Visual Communications

Course Catalog 2015-2016

Utah Valley University
ENGL 2010 Intermediate Writing—Humanities/Social Sciences 3
or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

Complete one of the following: 3
MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3
HIST 2700 US History to 1877 (3.0)
and
HIST 2710 US History since 1877 (3.0)
HIST 1700 American Civilization (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)

Complete the following: 3
PHIL 2050 Ethics and Values
or PES 1097 Fitness for Life

Distribution Courses:
Biology 3
Physical Science 3
Additional Biology or Physical Science 3
Humanities Distribution 3
ARLTH 2710 History of Art to the Renaissance 3
Social/Behavioral Science 3

Discipline Core Requirements: 26 Credits
ART 1110 Drawing I * 3
ART 1120 2D Design * 3
ART 1130 3D Design * 3
ART 1400 Graphic Computer Applications * 3
ART 200R AVC Lecture Series (Must be taken 2 times) 2
ART 499R BFA Project (must be taken in two consecutive semesters) 6
ART 2720 History of Art from the Renaissance 3

Complete 3 credits from one of the following: * 3
ART 1050 Photography I (3.0)
ART 1210 Drawing for Illustration (3.0)
ART 1350 Ceramics I (3.0)
ART 1420 Introduction to Graphic Design (3.0)
ART 1650 Watermedia I (3.0)

Emphasis Requirements: 15 Credits
Complete the following:
ART 1790 Dark Room Techniques 3
ART 2700 Photography II 3
ART 2710 Documentary Photography 3

ART 2720 Color Photography 3
ART 2730 Photographic Lighting I 3

Emphasis Elective Requirements: 44 Credits
ARTH 3010 History of Design and Visual Arts (3.0)
or
ARTH 3070 Modern Art and Architecture History 3
ARTH 3200 The History of Photography 3
ART 371R Historical Photographic Processes 3
ART 3730 Photographic Lighting II 3
ART 3740 Fine Art Photography 3
ART 3750 Advanced Digital Imaging 3
ART 471R Photographic Illustration 3
ART 474R Advanced Photo Studies 3
ART 4750 Exploratory Photographic Processes 3
ART 481R Art and Visual Communications Internship 2

Complete any ART/ARLTH courses not already used (5 credits must be upper division).

Graduation Requirements:
1. Completion of a minimum of 120 semester credits.
2. Overall GPA of 2.0 or above with 3.0 GPA or above in ART & ARTH courses. Courses within the student’s area of emphasis must be completed with a C grade or above.
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. 4 Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio submission required during senior year.
7. Successful completion of at least one Global/Intercultural course.

Footnotes
* Minimum grade of B- required.

Art and Visual Communications - Photography Emphasis, B.F.A.

Careers

Students are prepared to compete in the photo area generally through free-lance work in areas such as advertising, stock images, weddings, documentary, portraiture etc. They may also look at in-house photography departments or studios. Students may also choose to promote their work to galleries, museums, exhibitions, commissions.

Related Careers
- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Visual Communications - Sculpture and Ceramics Emphasis, B.F.A.

Requirements

UVU's BFA in ceramics and sculpture helps students build a strong foundation of design fundamentals, technical skills, and the use of materials. Whether throwing clay on a potter's wheel or listening to a class lecture, students discover endless sources of
Art and Visual Communications

creative ideas while taking courses in low-fire ceramics, mold making, casting, ceramic technologies, and more.

Total Program Credits: 120

Matriculation Requirements:

1. AA, AS, or AAS Degree or equivalent in Art and Visual Communication or advisor approval
2. Portfolio Review

General Education Requirements: 35 Credits

ENGL 1010 Introduction to Writing 3
ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3
or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3

MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3

HIST 2700 US History to 1877 (3.0)
and HIST 2710 US History since 1877 (3.0)
HIST 1700 American Civilization (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)

Complete the following:

PHIL 2050 Ethics and Values 3
HLTH 1100 Personal Health and Wellness (2.0)
or PES 1097 Fitness for Life 2

Distribution Courses:

Biology 3
Physical Science 3
Additional Biology or Physical Science 3
Humanities Distribution 3
ARTH 2710 History of Art to the Renaissance 3
Social/Behavioral Science 3

Discipline Core Requirements: 26 Credits

ART 1110 Drawing I * 3
ART 1120 2D Design * 3
ART 1130 3D Design * 3
ART 1400 Graphic Computer Applications * 3
ART 200R AVC Lecture Series (Must be taken 2 times) 2
ART 499R BFA Project (must be taken in two consecutive semesters) 6
ARTH 2720 History of Art from the Renaissance 3

Complete 3 credits from one of the following: * 3

ART 1050 Photography I (3.0)

Emphasis Requirements: 45 Credits

Students emphasizing 3-D art complete the following (either ART 334R or ART 335R must be repeated):

ART 1340 Sculpture I 3
ART 1350 Ceramics I 3
ART 1650 Watermedia I 3
ART 2340 Sculpture II 3
ART 2350 Ceramics II 3
ART 2630 Painting I 3
ART 2680 Printmaking I 3
ART 3800 Low-Fire Ceramics 3
ART 3810 Ceramic Technologies 3
ART 4360 Mold Making and Casting 3
ART 4370 Hand Building Ceramics 3
ART 3005 Ceramic History Trends and Practices 3

Complete 9.0 credits of the following, with no more than 6.0 credits in one course.

ART 334R Sculpture III (3.0)
ART 335R Ceramics III (3.0)

Emphasis Elective Requirements: 14 Credits

Two upper-division Art History classes (6 credits) 6

Complete any ART/ARTH courses not already used (4 credits must be upper division). 8

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall GPA of 2.0 or above with 3.0 GPA or above in ART & ARTH courses.
   Courses within the student's area of emphasis must be completed with a C grade or above.
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. 4 Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio submission required during senior year.
7. Successful completion of at least one Global/Intercultural course.

Footnotes

* Minimum grade of B- required.

Art and Visual Communications - Sculpture and Ceramics Emphasis, B.F.A.

Careers

Students are prepared to compete in the arts arena typically via self-employment by promoting their work through galleries, museums, exhibitions, commissions fairs and festivals. Other opportunities include teaching private lessons and working in related fields in museums and galleries. Some students also choose to pursue graduate studies to further their development or to prepare them to teach in higher education. Areas of study include sculpture and ceramics.
Related Careers
• Art, Drama, and Music Teachers, Postsecondary
• Commercial and Industrial Designers
• Graphic Designers
• Set and Exhibit Designers
• Designers, All Other

Art and Visual Communications, B.A.
Requirements
Students who elect to earn a bachelor of arts or associate of arts degree are required to complete a foreign language requirement, while those who earn a bachelor of science or associate of science degree have the option to take more electives. All of these degrees allow students to explore a few areas within the department and gain a more well-rounded education in the visual arts.

Total Program Credits: 120

Total Program Credits: 120

General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing–Humanities/Social</td>
<td>3</td>
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<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing–Science and Technology</td>
<td>3</td>
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Complete one of the following: 3

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<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td>3</td>
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<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
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Complete one of the following: 3

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<thead>
<tr>
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<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3</td>
</tr>
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<td>HIST 2710</td>
<td>US History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>3</td>
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Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
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Distribution Courses:

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<thead>
<tr>
<th>Field</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>Biology</td>
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<td></td>
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<tr>
<td>Physical Science</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td></td>
<td>(fulfilled with Foreign Language 202G/2020)</td>
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<tr>
<td>ARTH 2710</td>
<td>History to the Renaissance</td>
<td>3</td>
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<tr>
<td>Social/Behavioral Science</td>
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Discipline Core Requirements: 47 Credits

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ART 1110</td>
<td>Drawing I *</td>
<td>3</td>
</tr>
<tr>
<td>ART 1120</td>
<td>2D Design *</td>
<td>3</td>
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<tr>
<td>ART 1130</td>
<td>3D Design *</td>
<td>3</td>
</tr>
<tr>
<td>ART 1400</td>
<td>Graphic Computer Applications *</td>
<td>3</td>
</tr>
<tr>
<td>ART 200R</td>
<td>AVC Lecture Series</td>
<td>2</td>
</tr>
<tr>
<td>ART 4800</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade lower than a C- in all AVC courses.
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio Submission.
7. Successful completion of at least one Global/Intercultural course.
8. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.

Footnotes
* Minimum grade of B- required

Art and Visual Communications, B.A.
Careers

A degree in art provides training in creative and critical thinking, problem solving and visual communication, providing a sound background for careers both in and outside of the arts. Careers could include working with arts organizations, museums, or nonprofit groups. While the BFA degrees provide specific professional training, Bachelor of Science students who have taken a number of classes in a specific area may also be qualified for jobs in the fields of graphic design, photography and illustration, or opportunities to submit work to galleries, museums, exhibitions, commissions fairs and festivals.

Related Careers
• Art, Drama, and Music Teachers, Postsecondary
• Commercial and Industrial Designers
• Graphic Designers
• Set and Exhibit Designers
• Designers, All Other

Art and Visual Communications, B.S.
Requirements
Students who elect to earn a bachelor of arts or associate of arts degree are required to complete a foreign language requirement, while those who earn a bachelor of science or associate of science degree have the option to take more electives. All of these
degrees allow students to explore a few areas within the department and gain a more well-rounded education in the visual arts.

**Total Program Credits: 120**

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
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<tr>
<td>ENGL 2010 Intermediate Writing–Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing–Science and Technology (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following:

| MATH 1030 Quantitative Reasoning (3.0) | 3 |
| MATH 1040 Introduction to Statistics (3.0) | |
| MATH 1050 College Algebra (4.0) | |

Complete one of the following:

| HIST 2700 US History to 1877 (3.0) | 3 |
| HIST 2710 US History since 1877 (3.0) | |
| HIST 1700 American Civilization (3.0) | |
| HIST 1740 US Economic History (3.0) | |
| POLS 1000 American Heritage (3.0) | |
| POLS 1100 American National Government (3.0) | |

Complete the following:

| PHIL 2050 Ethics and Values | 3 |
| HLTH 1100 Personal Health and Wellness | 2 |
| or PES 1097 Fitness for Life (2.0) | |

**Distribution Courses:**

| Biology | 3 |
| Physical Science | 3 |
| Additional Biology or Physical Science | 3 |
| Humanities Distribution | 3 |
| ARTH 2710 History of Art to the Renaissance | 3 |
| Social/Behavioral Science | 3 |

**Discipline Core Requirements:**

| ART 1110 Drawing I * | 3 |
| ART 1120 2D Design * | 3 |
| ART 1130 3D Design * | 3 |
| ART 1400 Graphic Computer Applications * | 3 |
| ART 200R AVC Lecture Series | 2 |
| ART 4890 Senior Seminar | 3 |
| ARTH 2720 History of Art from the Renaissance | 3 |

Complete 3 credits from one of the following: *

| ART 1050 Photography I (3.0) | 3 |
| ART 1210 Drawing for Illustration (3.0) | |
| ART 1350 Ceramics I (3.0) | |
| ART 1420 Introduction to Graphic Design (3.0) | |
| ART 1650 Watermedia I (3.0) | |

Complete 24 credits from any ART/ARTH courses not already taken (see Graduation Requirement 1). 24

**Elective Requirements:**

| 38 Credits | 38 |

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**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits, with a minimum of 40 of upper division credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio Submission.
7. Successful completion of at least one Global/Intercultural course.

**Footnotes**

* Minimum grade of B- required

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**Art and Visual Communications, B.S.**

**Careers**

A degree in art provides training in creative and critical thinking, problem solving and visual communication, providing a sound background for careers both in and outside of the arts. Careers could include working with arts organizations, museums, or non-profit groups. While the BFA degrees provide specific professional training, Bachelor of Science students who have taken a number of classes in a specific area may also be qualified for jobs in the fields of graphic design, photography and illustration, or opportunities to submit work to galleries, museums, exhibitions, commissions fairs and festivals.

**Related Careers**

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other
Automotive Technology

Name: Automotive Technology
Location: SA 325
Telephone: 801-863-8349
Email: daviska@uvu.edu
Web Address: uvu.edu/auto
Chair: Vern Hiatt

Mission Statement
The mission of the UVU Automotive Department is to conduct academic and applied teaching. The training programs provide qualified employees for entry level positions in all categories of the Automotive, Collision / Refinish, and Diesel repair technology industries. These programs will afford students the opportunity to attain a one, two, and/or four-year degree at the completion of their training. The training provided will have an emphasis on basic skills and principles which will allow participants to adapt to new and ever changing technologies. Current and foreseeable technology will be utilized in presenting and practicing basic performance skills.

College of Technology & Computing
• Administrative Support: Katreena Davis
  Office: SA 325
  Telephone: 801-863-8349
  Email: daviska@uvu.edu

• Advisor: Carrie Peterson
  Office: CS 635
  Telephone: 801-863-7454
  Email: petersca@uvu.edu

• Dean: Michael Savoie
  Office: CS 720
  Telephone: 801-863-8321

Automotive Technology
• Program Coordinator: Paul Bean
  Office: SA 320
  Telephone: 801-863-8243
  Email: Paul.Bean@uvu.edu

Advisory Committee:
Dave Johnson, DJ Auto; Mel Fergerson, LKO; Matt Hasara, Powerhouse Motorsports; Lenny Hall, Midas; Chet Milburn, O’Reily; Eric Patten, EP Auto; Rory Henrie, Accelerated Services, LLC; JT Collette, Payson High School; Mike Powell, Torque Shop; Orin Nelson, Community Member.

Collision Repair Technology
• Program Coordinator: Terrance Orr
  Office: SA
  Telephone: 801-863-6335 or 801-863-8349
  Email: orrte@uvu.edu

Advisory Committee:
Russel Nichols, Cascade Collision; Brian Nichols, Cascade Collision; Darrin Mitchell, Chief Automotive; Steve Whillock, Whillock Autobody; Cary Robarge, Robarge Collision; Shane Bowden, NCS Coatings; Sergio Martin, Martins Collision Repair.

Diesel Mechanics Technology

• Program Coordinator: Dean Bohl
  Office: SA 317c
  Telephone: 801-863-8251 or 801-863-8349
  Email: DBohl@uvu.edu

Advisory Committee:
Terry Pollock, Wheeler Machinery; Rick Garcia, UTA; Dave Anderson, Geneva Rock Products; Mike Hanyon, Extreme Diesel; Cameron Kallas, United Diesel, Casey Muhlstein, Burningham Trucking

DEPARTMENT CHAIR
HIATT, Vernon Associate Professor

FACULTY
BEAN, Paul Associate Professor
BLACKHURST, Kelvyn A. Associate Professor
BOGGESS, Cris Dee Associate Professor
BOHL, Dean Associate Professor
CAMPBELL, Robert Associate Professor
HASARA, Matthew Lecturer
HIATT, Vernon Associate Professor
LOW, Todd Professor
ORR, Terrance Associate Professor
WALKER, Kent Assistant Professor
WILSON, Don Associate Professor

Course Descriptions
Auto Mechanics.................................................................535
Collision Repair Technology................................................. 570
Diesel Mechanics............................................................. 595

Degrees & Programs
Automotive Technology, A.A.S.
Requirements
Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associated in applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

Total Program Credits: 64

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>16 Credits</th>
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<tbody>
<tr>
<td>MKTG 2200 Written Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>AUT 1260 Tech Math for Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>Any approved Humanities, Fine Arts, or Foreign Language Distribution Course</td>
<td>3</td>
</tr>
<tr>
<td>Any approved Behavioral Science, Social, or Political Science Distribution Course</td>
<td>3</td>
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<tr>
<td>Any approved Biology or Physical Science Distribution Course</td>
<td>3</td>
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<tr>
<td>Any approved Physical Education, Health, Safety, or Environment Course</td>
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<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
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<td>AUT 1110 Brake Systems</td>
<td>2</td>
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<tr>
<td>AUT 111L Brake Systems Lab</td>
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<tr>
<td>AUT 1120 Manual Power Trains</td>
<td>2</td>
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<td>AUT 112L Manual Power Trains Lab</td>
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Automotive Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AUT 1130</td>
<td>Engine Repair</td>
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<tr>
<td>AUT 113L</td>
<td>Engine Repair Lab</td>
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<tr>
<td>AUT 1160</td>
<td>Automotive Electrical Systems</td>
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<td>AUT 116L</td>
<td>Automotive Electrical Systems Lab</td>
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<td>AUT 1170</td>
<td>Engine Electrical Systems</td>
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<td>AUT 117L</td>
<td>Engine Electrical Systems Lab</td>
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<tr>
<td>AUT 1210</td>
<td>Suspension and Steering Systems</td>
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<tr>
<td>AUT 121L</td>
<td>Suspension and Steering Systems Lab</td>
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<tr>
<td>AUT 1220</td>
<td>Automatic Transmissions and Transaxles</td>
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<td>Automatic Transmissions and Transaxles Lab</td>
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<td>Engine Performance</td>
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<td>AUT 123L</td>
<td>Engine Performance Lab</td>
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<td>AUT 2110</td>
<td>Advanced Steering Suspension and Alignment</td>
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</tr>
<tr>
<td>AUT 2120</td>
<td>Advanced Engine Performance</td>
<td>2</td>
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<td>AUT 2130</td>
<td>Advanced Emission Control Systems</td>
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<td>AUT 2140</td>
<td>Chassis Electrical and Electronics Systems</td>
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<td>AUT 2210</td>
<td>Advanced Braking and Control Systems</td>
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<td>AUT 2220</td>
<td>Automatic Transmissions and Electronic Controls</td>
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<td>AUT 2240</td>
<td>Heating Ventilation Air Conditioning and Refrigeration Theory</td>
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<tr>
<td>AUT 2250</td>
<td>Electronic Fuel Management Systems (2.0)</td>
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<tr>
<td>or</td>
<td>AUT 2350</td>
<td>Electronic Diesel Fuel Management Systems (2.0)</td>
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<td>Complete 8 credits from the following:</td>
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<tr>
<td>AUT 201L</td>
<td>Automotive Service Practicum Engine Performance and Steering Suspension (2.0)</td>
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<tr>
<td>AUT 202L</td>
<td>Automotive Service Practicum Emission Controls and Chassis Electronics (2.0)</td>
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<tr>
<td>AUT 203L</td>
<td>Automotive Service Practicum Brake Systems and Transmission Controls (2.0)</td>
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<tr>
<td>AUT 204L</td>
<td>Automotive Service Practicum Fuel Management Systems and HVACR (2.0)</td>
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<tr>
<td>AUT 281R</td>
<td>Cooperative Work Experience (1.0)</td>
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</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 64 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements

Automotive Technology, A.A.S. Careers

Recognizing that a successful career in automotive technology involves much more than mechanical ability to replace parts, Utah Valley University has designed this curriculum for the individual who has ability and aptitude to become a skilled automotive technician. Opportunities are available in: general automotive repair, steering/suspension and alignment, tune-up, cooling system and air conditioning brakes, engine rebuilding, automatic and manual transmissions, computerized electronic ignition and fuel injection, and emission controls. Training for service advisors, shop foreman, and shop managers is also provided.

Related Careers
- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics

Automotive Technology, A.S. Requirements

Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associated in applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

Total Program Credits: 60

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- Complete one of the following:
  - MATH 1030 Quantitative Reasoning (3.0)
  - MATH 1040 Introduction to Statistics (3.0)
  - MATH 1050 College Algebra (4.0)
- Complete one of the following:
  - POLS 1000 American Heritage (3.0)
  - HIST 2700 US History to 1877 (3.0)
  - HIST 2710 US History since 1877 (3.0)
  - HIST 1700 American Civilization (3.0)
  - HIST 1740 US Economic History (3.0)
  - POLS 1100 American National Government (3.0)
- Complete the following:
  - PHIL 2050 Ethics and Values (3.0)
  - HLTH 1100 Personal Health and Wellness (2.0)
  - PES 1097 Fitness for Life (2.0)

Distribution Courses
- Biology (3)
- Physical Science (3)
- Additional Biology or Physical Science (3)
- Humanities Distribution (3)
- Fine Arts Distribution (3)
- Social/Behavioral Science (3)

Discipline Core Requirements: 16 Credits
- Choose from AUT or related 1000 level or higher courses (16)

Elective Requirements: 9 Credits
- Choose electives from 1000 level or higher courses (9)

Graduation Requirements:
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
**Automotive Technology, A.S.**

**Careers**

Recognizing that a successful career in automotive technology involves much more than mechanical ability to replace parts, Utah Valley University has designed this curriculum for the individual who has ability and aptitude to become a skilled automotive technician. Opportunities are available in: general automotive repair, steering/suspension and alignment, tune-up, cooling system and air conditioning brakes, engine rebuilding, automatic and manual transmissions, computerized electronic ignition and fuel injection, and emission controls. Training for service advisors, shop foreman, and shop managers is also provided.

**Related Careers**

- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics

**Collision Repair Technology - Collision Repair Emphasis, A.A.S.**

**Requirements**

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. See graduation requirements in the catalog for more information.

**Total Program Credits: 64**

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MKTG 2200 Written Business Communication</td>
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<tr>
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<tr>
<td>Any approved Behavioral Science, Social, or Political Science Distribution Course</td>
<td>3</td>
</tr>
<tr>
<td>Any approved Biology or Physical Science Distribution Course</td>
<td>3</td>
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<tr>
<td>Any approved Physical Education, Health, Safety or Environment Course</td>
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</table>

**Discipline Core Requirements:** 24 Credits

Complete the following:

<table>
<thead>
<tr>
<th>AUT 1160 Automotive Electrical Systems</th>
<th>2</th>
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</thead>
<tbody>
<tr>
<td>AUT 116L Automotive Electrical Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 2240 Heating Ventilation Air Conditioning and Refrigeration Theory</td>
<td>2</td>
</tr>
<tr>
<td>AUT 224L Automotive HVAC Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1110 Surface Preparation</td>
<td>2</td>
</tr>
<tr>
<td>CRT 111L Surface Preparation Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1120 Nonstructural Repair</td>
<td>2</td>
</tr>
<tr>
<td>CRT 112L Nonstructural Repair Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1130 Overall Refinishing and Problem Solving</td>
<td>2</td>
</tr>
<tr>
<td>CRT 113L Overall Refinishing and Problem Solving Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1140 Panel Replacement and Adjustment</td>
<td>2</td>
</tr>
<tr>
<td>CRT 114L Panel Replacement and Adjustment Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1210 Blending Tinting and Detailing</td>
<td>2</td>
</tr>
<tr>
<td>CRT 121L Blending Tinting and Detailing Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1230 Welding and Cutting</td>
<td>2</td>
</tr>
</tbody>
</table>

**Emphasis Requirements:** 24 Credits

<table>
<thead>
<tr>
<th>CRT 123L Welding and Cutting Lab</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRT 281R Cooperative Work Experience (1.0)</td>
<td>1</td>
</tr>
<tr>
<td>CRT 285R Cooperative Correlated Class (1.0)</td>
<td>1</td>
</tr>
<tr>
<td>CRT 299R VICA (1.0)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Footnote**

* Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of AAS requirements. Approval of the program coordinator must be secured before class enrollment.

**Collision Repair Technology - Collision Repair Emphasis, A.A.S.**

**Careers**

The collision repair industry offers a wide variety of career paths. The industry offers positions in auto body repair, PBE (paint, body, and equipment) sales and training, manufacturer representation, insurance businesses, jobber sales, and instructor training. Graduates may choose a career emphasis in: refinishing, surface preparation, estimating, management, quality control, production, structural repair, damage analysis, glass installation, panel fabrication, customization, nonstructural repair, sales, and instructor training.

**Related Careers**

- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics

**Collision Repair Technology - Street Rod Emphasis, A.A.S.**

**Requirements**

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. See graduation requirements in the catalog for more information.

**Total Program Credits: 64**
### General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 2200</td>
<td>Written Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>AUT 1260</td>
<td>Tech Math for Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>Any approved Humanities, Fine Arts, or Foreign Language Distribution Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Any approved Behavioral Science, Social, or Political Science Distribution Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Any approved Biology or Physical Science Distribution Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Any approved Physical Education, Health, Safety or Environment Course</td>
<td>1</td>
<td></td>
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**Total Credits:** 16

### Discipline Core Requirements:

**Total Credits:** 24

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AUT 1160</td>
<td>Automotive Electrical Systems</td>
<td>2</td>
</tr>
<tr>
<td>AUT 116L</td>
<td>Automotive Electrical Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 2240</td>
<td>Heating Ventilation Air Conditioning and Refrigeration Theory</td>
<td>2</td>
</tr>
<tr>
<td>AUT 224L</td>
<td>Automotive HVAC Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1110</td>
<td>Surface Preparation</td>
<td>2</td>
</tr>
<tr>
<td>CRT 111L</td>
<td>Surface Preparation Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1120</td>
<td>Nonstructural Repair</td>
<td>2</td>
</tr>
<tr>
<td>CRT 112L</td>
<td>Nonstructural Repair Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1130</td>
<td>Overall Refinishing and Problem Solving</td>
<td>2</td>
</tr>
<tr>
<td>CRT 113L</td>
<td>Overall Refinishing and Problem Solving Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1140</td>
<td>Panel Replacement and Adjustment</td>
<td>2</td>
</tr>
<tr>
<td>CRT 114L</td>
<td>Panel Replacement and Adjustment Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1210</td>
<td>Blending Tinting and Detailing</td>
<td>2</td>
</tr>
<tr>
<td>CRT 121L</td>
<td>Blending Tinting and Detailing Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1230</td>
<td>Welding and Cutting</td>
<td>2</td>
</tr>
<tr>
<td>CRT 123L</td>
<td>Welding and Cutting Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 281R</td>
<td>Cooperative Work Experience (1.0) *</td>
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</tr>
<tr>
<td>CRT 285R</td>
<td>Cooperative Correlated Class (1.0) *</td>
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<tr>
<td>CRT 299R</td>
<td>VICA (1.0)</td>
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**Emphasis Requirements:** 24 Credits

Complete the following:

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CRT 2510</td>
<td>Custom Welding</td>
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<td>CRT 251L</td>
<td>Custom Welding Lab</td>
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<tr>
<td>CRT 2530</td>
<td>Panel Fabrication</td>
<td>2</td>
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<tr>
<td>CRT 253L</td>
<td>Panel Fabrication Lab</td>
<td>1</td>
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<tr>
<td>CRT 2520</td>
<td>Customizing</td>
<td>2</td>
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<tr>
<td>CRT 252L</td>
<td>Customizing Lab</td>
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<tr>
<td>CRT 2640</td>
<td>Panel Fabrication of Aluminum</td>
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<tr>
<td>CRT 264L</td>
<td>Panel Fabrication of Aluminum Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 2610</td>
<td>Top Chopping Sectioning and Channeling</td>
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</tr>
<tr>
<td>CRT 261L</td>
<td>Top Chopping Sectioning and Channeling Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 2620</td>
<td>Frames</td>
<td>2</td>
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<tr>
<td>CRT 262L</td>
<td>Frames Lab</td>
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<tr>
<td>CRT 2630</td>
<td>Detailing and Custom Painting</td>
<td>2</td>
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<td>CRT 263L</td>
<td>Detailing and Custom Painting Lab</td>
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<td>CRT 2650</td>
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<tr>
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<td>Automotive Interior Design Lab</td>
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</tr>
</tbody>
</table>

**Footnote**

Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of AAS requirements. Approval of the program coordinator must be secured before class enrollment.

### Collision Repair Technology - Street Rod Emphasis, A.A.S.

**Careers**

The collision repair industry offers a wide variety of career paths. The industry offers positions in auto body repair, PBE (paint, body, and equipment) sales and training, manufacturer representation, insurance businesses, jobber sales, and instructor training. Graduates may choose a career emphasis in: refinishing, surface preparation, estimating, management, quality control, production, structural repair, damage analysis, glass installation, panel fabrication, customization, nonstructural repair, sales, and instructor training.

### Related Careers

- Insurance Appraisers, Auto Damage
- Automotive Body and Related Repairers
- Automotive Glass Installers and Repairers
- Painters, Transportation Equipment

### Diesel Mechanics Technology, A.A.S.

**Requirements**

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree.

**Total Program Credits:** 64

### General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 2200</td>
<td>Written Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>AUT 1260</td>
<td>Tech Math for Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 1000</td>
<td>Integrated Beginning and Intermediate Algebra (5.0)</td>
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</tr>
<tr>
<td>or Any higher MAT or MATH course</td>
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**Emphasis Requirements:** 24 Credits

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMT 1110</td>
<td>Diesel Engine Overhaul</td>
<td>4</td>
</tr>
<tr>
<td>DMT 111L</td>
<td>Diesel Engine Overhaul Lab</td>
<td>2</td>
</tr>
<tr>
<td>DMT 1120</td>
<td>Diesel Engine Operation/Tune Up</td>
<td>4</td>
</tr>
<tr>
<td>DMT 112L</td>
<td>Diesel Engine Operation/Tune-up Lab</td>
<td>2</td>
</tr>
<tr>
<td>DMT 1510</td>
<td>Electrical Systems Theory</td>
<td>4</td>
</tr>
<tr>
<td>DMT 151L</td>
<td>Electrical Systems Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements:** 48 Credits

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DMT 1110</td>
<td>Diesel Engine Overhaul</td>
<td>4</td>
</tr>
<tr>
<td>DMT 111L</td>
<td>Diesel Engine Overhaul Lab</td>
<td>2</td>
</tr>
<tr>
<td>DMT 1120</td>
<td>Diesel Engine Operation/Tune Up</td>
<td>4</td>
</tr>
<tr>
<td>DMT 112L</td>
<td>Diesel Engine Operation/Tune-up Lab</td>
<td>2</td>
</tr>
<tr>
<td>DMT 1510</td>
<td>Electrical Systems Theory</td>
<td>4</td>
</tr>
<tr>
<td>DMT 151L</td>
<td>Electrical Systems Lab</td>
<td>2</td>
</tr>
</tbody>
</table>
DMT 1520  Engine Electronics and Diagnostics Theory  4
DMT 152L  Engine Electronics and Diagnostics  2
DMT 2230  Heating Ventilation Air Conditioning and Refrigeration Theory  2
DMT 223L  Climate Control Lab  1
DMT 2310  Fluid Power Theory  4
DMT 231L  Fluid Power Lab  2
DMT 2320  Fluid Power Transmission Theory  2
DMT 232L  Fluid Power Transmission Lab  1
DMT 2410  Chassis Theory  4
DMT 241L  Chassis Lab  2
DMT 2420  Power Trains Theory  4
DMT 242L  Power Trains Lab  2

Graduation Requirements:
1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Diesel Mechanics Technology, A.A.S.
Careers

Career opportunities are available in: general automotive repair, steering/suspension and alignment, tune-up, cooling system and air conditioning, brakes, engine rebuilding, automatic and manual transmissions, computerized electronic ignition and fuel injection, and emission controls. Training for service advisors, shop foreman, and shop managers is also provided.

Related Careers

• Bus and Truck Mechanics and Diesel Engine Specialists

Automotive Technology, Certificate of Completion

Requirements

Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associate in applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

Total Program Credits: 32

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>32 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 1110  Brake Systems</td>
<td>2</td>
</tr>
<tr>
<td>AUT 111L  Brake Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1120  Manual Power Trains</td>
<td>2</td>
</tr>
<tr>
<td>AUT 112L  Manual Power Trains Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1130  Engine Repair</td>
<td>2</td>
</tr>
<tr>
<td>AUT 113L  Engine Repair Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1160  Automotive Electrical Systems</td>
<td>2</td>
</tr>
<tr>
<td>AUT 116L  Automotive Electrical Systems Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 32 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU
4. Completion of specified departmental requirements

Automotive Technology, Certificate of Completion

Careers

Recognizing that a successful career in automotive technology involves much more than mechanical ability to replace parts, Utah Valley University has designed this curriculum for the individual who has ability and aptitude to become a skilled automotive technician. Opportunities are available in: general automotive repair, steering/suspension and alignment, tune-up, cooling system and air conditioning, brakes, engine rebuilding, automatic and manual transmissions, computerized electronic ignition and fuel injection, and emission controls. Training for service advisors, shop foreman, and shop managers is also provided.

Related Careers

• Electrical and Electronics Installers and Repairers, Transportation Equipment
• Electronic Equipment Installers and Repairers, Motor Vehicles
• Automotive Service Technicians and Mechanics

Collision Repair Technology, Certificate of Completion

Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. See graduation requirements in the catalog for more information.

Total Program Credits: 32

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>32 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 1260  Tech Math for Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 2200  Written Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>Any approved Behavioral Science, Social, or Political Science Distribution Course</td>
<td>2</td>
</tr>
<tr>
<td>AUT 1160  Automotive Electrical Systems</td>
<td>2</td>
</tr>
<tr>
<td>AUT 116L  Automotive Electrical Systems Lab</td>
<td>1</td>
</tr>
</tbody>
</table>
Automotive Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AUT 2240</td>
<td>Heating Ventilation Air Conditioning and Refrigeration Theory</td>
<td>2</td>
</tr>
<tr>
<td>AUT 224L</td>
<td>Automotive HVAC Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1110</td>
<td>Surface Preparation</td>
<td>2</td>
</tr>
<tr>
<td>CRT 111L</td>
<td>Surface Preparation Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1120</td>
<td>Nonstructural Repair</td>
<td>2</td>
</tr>
<tr>
<td>CRT 112L</td>
<td>Nonstructural Repair Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1230</td>
<td>Welding and Cutting</td>
<td>2</td>
</tr>
<tr>
<td>CRT 123L</td>
<td>Welding and Cutting Lab</td>
<td>2</td>
</tr>
<tr>
<td>CRT 1140</td>
<td>Panel Replacement and Adjustment</td>
<td>2</td>
</tr>
<tr>
<td>CRT 114L</td>
<td>Panel Replacement and Adjustment Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1130</td>
<td>Overall Refinishing and Problem Solving</td>
<td>2</td>
</tr>
<tr>
<td>CRT 113L</td>
<td>Overall Refinishing and Problem Solving Lab</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1210</td>
<td>Blending Tinting and Detailing</td>
<td>2</td>
</tr>
<tr>
<td>CRT 121L</td>
<td>Blending Tinting and Detailing Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 32 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU.
4. Note: Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of diploma requirements.

Collision Repair Technology, Certificate of Completion

Careers:
The collision repair industry offers a wide variety of career paths. The industry offers positions in auto body repair, PBE (paint, body, and equipment) sales and training, manufacturer representation, insurance businesses, jobber sales, and instructor training. Graduates may choose a career emphasis in: refinishing, surface preparation, estimating, management, quality control, production, structural repair, damage analysis, glass installation, panel fabrication, customization, nonstructural repair, sales, and instructor training.

Related Careers
• Insurance Appraisers, Auto Damage
• Automotive Body and Related Repairers
• Automotive Glass Installers and Repairers
• Painters, Transportation Equipment

Diesel Mechanics Technology, Certificate of Completion

Requirements
One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree.

Total Program Credits: 56

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 1110</td>
<td>2</td>
</tr>
<tr>
<td>AUT 111L</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1120</td>
<td>2</td>
</tr>
<tr>
<td>AUT 112L</td>
<td>1</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 32 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Completion of specified departmental requirements.
4. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

Diesel Mechanics Technology, Certificate of Completion

Careers:
Diesel technology students may be hired as mechanics working on engines, automatic transmissions, drive trains, electrical systems, suspension and steering, hydraulics, and air systems. They work on heavy equipment, farm equipment, and on-highway trucks. Diesel mechanics diagnose, repair, weld, and fine-tune the working parts of buses, trucks, construction machinery, and generators. Students pursing a Bachelor of Science degree in Technology management can expect opportunities as shop managers, service writers, equipment managers, fleet managers and product development.

Related Careers
• Bus and Truck Mechanics and Diesel Engine Specialists

Automotive Technology, Diploma

Requirements
Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associated in applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

Total Program Credits: 56
### Automotive Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 1210</td>
<td>Suspension and Steering Systems</td>
<td>2</td>
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<td>AUT 121L</td>
<td>Suspension and Steering Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1220</td>
<td>Automatic Transmissions and Transaxles</td>
<td>2</td>
</tr>
<tr>
<td>AUT 122L</td>
<td>Automatic Transmissions and Transaxles Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1230</td>
<td>Engine Performance</td>
<td>2</td>
</tr>
<tr>
<td>AUT 123L</td>
<td>Engine Performance Lab</td>
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</tr>
<tr>
<td>AUT 2110</td>
<td>Advanced Steering Suspension and Alignment</td>
<td>2</td>
</tr>
<tr>
<td>AUT 2120</td>
<td>Advanced Engine Performance</td>
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<td>AUT 2130</td>
<td>Advanced Emission Control Systems</td>
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<tr>
<td>AUT 2140</td>
<td>Chassis Electrical and Electronics Systems</td>
<td>2</td>
</tr>
<tr>
<td>AUT 2210</td>
<td>Advanced Braking and Control Systems</td>
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</tr>
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<td>AUT 2220</td>
<td>Automatic Transmissions and Electronic Controls</td>
<td>2</td>
</tr>
<tr>
<td>AUT 2240</td>
<td>Heating Ventilation Air Conditioning and Refrigeration Theory</td>
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<tr>
<td>AUT 2250</td>
<td>Electronic Fuel Management Systems (2.0)</td>
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<tr>
<td>AUT 2350</td>
<td>Electronic Diesel Fuel Management Systems</td>
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<tr>
<td>MKTG 2200</td>
<td>Written Business Communication</td>
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<tr>
<td>CRT 240L</td>
<td>Automotive Service Practicum Engine Performance and Steering Systems (2.0)</td>
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<tr>
<td>CRT 242L</td>
<td>Automotive Service Practicum Emission Controls and Chassis Electronics (2.0)</td>
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<td>CRT 243L</td>
<td>Automotive Service Practicum Brake Systems and Transmission Controls (2.0)</td>
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<td>CRT 244L</td>
<td>Automotive Service Practicum Fuel Management Systems and HVACR (2.0)</td>
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<tr>
<td>CRT 281R</td>
<td>Cooperative Work Experience</td>
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</table>

#### Graduation Requirements:

1. Completion of a minimum of 56 semester hours.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Completion of specified departmental requirements.

### Automotive Technology, Diploma Careers

**Careers:**

Recognizing that a successful career in automotive technology involves much more than mechanical ability to replace parts, Utah Valley University has designed this curriculum for the individual who has ability and aptitude to become a skilled automotive technician. Opportunities are available in: general automotive repair, steering/suspension and alignment, tune-up, cooling system and air conditioning brakes, engine rebuilding, automatic and manual transmissions, computerized electronic ignition and fuel injection, and emission controls. Training for service advisors, shop foreman, and shop managers is also provided.

### Related Careers

- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics

### Collision Repair Technology - Collision Repair Emphasis, Diploma

#### Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. See graduation requirements in the catalog for more information.

#### Total Program Credits: 56

**Discipline Core Requirements:** 32 Credits

Complete the following:

- AUT 1260  Tech for Mechanics  3
- MKTG 2200  Written Business Communication  3
- Any approved Behavioral Science, Social, or Political Science Distribution Course  2
- AUT 1160  Automotive Electrical Systems  2
- AUT 116L  Automotive Electrical Systems Lab  1
- AUT 2240  Heating Ventilation Air Conditioning and Refrigeration Theory  2
- AUT 224L  Automotive HVAC Lab  1
- CRT 1110  Surface Preparation  2
- CRT 111L  Surface Preparation Lab  1
- CRT 1120  Nonstructural Repair  2
- CRT 112L  Nonstructural Repair Lab  1
- CRT 1130  Overall Refinishing and Problem Solving  2
- CRT 113L  Overall Refinishing and Problem Solving Lab  1
- CRT 1140  Panel Replacement and Adjustment  2
- CRT 114L  Panel Replacement and Adjustment Lab  1
- CRT 1210  Blending Tinting and Detailing  2
- CRT 121L  Blending Tinting and Detailing Lab  1
- CRT 1230  Welding and Cutting  2
- CRT 123L  Welding and Cutting Lab  1
- CRT 281R  Cooperative Work Experience (1.0)
- CRT 285R  Cooperative Correlated Class (1.0)
- CRT 299R  VICA (1.0)

#### Emphasis Requirements: 24 Credits

- CRT 2310  Collision Damage Reporting  2
- CRT 231L  Collision Damage Reporting Lab  1
- CRT 2320  Structural Damage Analysis  2
- CRT 232L  Structural Damage Analysis Lab  1
- CRT 2330  Structural Repair  2
- CRT 233L  Structural Repair Lab  1
- CRT 2340  Full and Partial Panel Replacement  2
- CRT 234L  Full and Partial Panel Replacement Lab  1
- CRT 2400  Plastic Paintless Dent Repair  2
- CRT 240L  Plastic PaintLess Dent Repair Lab  1
- CRT 2440  Mechanical Advanced Vehicle Systems  2
- CRT 244L  Mechanical Advanced Vehicle Systems Lab  1
- CRT 2450  Bags Brakes Steering  2
Automotive Technology

Graduation Requirements:
1. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)

NOTE: *Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of diploma requirements. Approval of the program coordinator must be secured before class enrollment.

Collision Repair Technology - Collision Repair Emphasis, Diploma

Careers:
The collision repair industry offers a wide variety of career paths. The industry offers positions in auto body repair, PBE (paint, body, and equipment) sales, and instructor training. Graduates may choose a career emphasis in: refinishing, surface preparation, estimating, management, quality control, production, structural repair, damage analysis, glass installation, panel fabrication, customization, nonstructural repair, sales, and instructor training.

Related Careers
- Insurance Appraisers, Auto Damage
- Automotive Body and Related Repairers
- Automotive Glass Installers and Repairers
- Painters, Transportation Equipment

Collision Repair Technology - Street Rod Emphasis, Diploma

Requirements
One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. See graduation requirements in the catalog for more information.

Total Program Credits: 56

Discipline Core Requirements: 32 Credits

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 1260</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 2200</td>
<td>3</td>
</tr>
<tr>
<td>Any approved Behavioral Science, Social, or Political Science Distribution Course</td>
<td>2</td>
</tr>
<tr>
<td>AUT 1160</td>
<td>2</td>
</tr>
<tr>
<td>AUT 116L</td>
<td>1</td>
</tr>
<tr>
<td>AUT 2240</td>
<td>2</td>
</tr>
<tr>
<td>AUT 224L</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1110</td>
<td>2</td>
</tr>
<tr>
<td>CRT 111L</td>
<td>1</td>
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<tr>
<td>CRT 1120</td>
<td>2</td>
</tr>
<tr>
<td>CRT 112L</td>
<td>1</td>
</tr>
<tr>
<td>CRT 1130</td>
<td>2</td>
</tr>
<tr>
<td>CRT 113L</td>
<td>1</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)

NOTE: *Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of diploma requirements. Approval of the program coordinator must be secured before class enrollment.

Collision Repair Technology - Street Rod Emphasis, Diploma

Careers:
The collision repair industry offers a wide variety of career paths. The industry offers positions in auto body repair, PBE (paint, body, and equipment) sales, and instructor training. Graduates may choose a career emphasis in: refinishing, surface preparation, estimating, management, quality control, production, structural repair, damage analysis, glass installation, panel fabrication, customization, nonstructural repair, sales, and instructor training.

Related Careers
- Insurance Appraisers, Auto Damage
- Automotive Body and Related Repairers
- Automotive Glass Installers and Repairers
- Painters, Transportation Equipment
Diesel Mechanics Technology, Diploma

Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree.

Total Program Credits: 56

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>56 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMT 1110 Diesel Engine Overhaul</td>
<td>4</td>
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<tr>
<td>DMT 111L Diesel Engine Overhaul Lab</td>
<td>2</td>
</tr>
<tr>
<td>DMT 1120 Diesel Engine Operation/Tune Up</td>
<td>4</td>
</tr>
<tr>
<td>DMT 112L Diesel Engine Operation/Tune-up Lab</td>
<td>2</td>
</tr>
<tr>
<td>DMT 1510 Electrical Systems Theory</td>
<td>4</td>
</tr>
<tr>
<td>DMT 151L Electrical Systems Lab</td>
<td>2</td>
</tr>
<tr>
<td>DMT 1520 Engine Electronics and Diagnostics Theory</td>
<td>4</td>
</tr>
<tr>
<td>DMT 152L Engine Electronics and Diagnostics</td>
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</tr>
<tr>
<td>DMT 2230 Heating Ventilation Air Conditioning and Refrigeration Theory</td>
<td>2</td>
</tr>
<tr>
<td>DMT 223L Climate Control Lab</td>
<td>1</td>
</tr>
<tr>
<td>DMT 2310 Fluid Power Theory</td>
<td>4</td>
</tr>
<tr>
<td>DMT 231L Fluid Power Lab</td>
<td>2</td>
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<tr>
<td>DMT 2320 Fluid Power Transmission Theory</td>
<td>2</td>
</tr>
<tr>
<td>DMT 232L Fluid Power Transmission Lab</td>
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</tr>
<tr>
<td>DMT 2410 Chassis Theory</td>
<td>4</td>
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<tr>
<td>DMT 241L Chassis Lab</td>
<td>2</td>
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<tr>
<td>DMT 2420 Power Trains Theory</td>
<td>4</td>
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<tr>
<td>DMT 242L Power Trains Lab</td>
<td>2</td>
</tr>
<tr>
<td>MKTG 2200 Written Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>AUT 1260 Tech Math for Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>Any approved Behavioral Science, Social, or Political Science Distribution Course</td>
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</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 56 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Completion of specified departmental requirements.
4. Residency hours—minimum of 20 credit hours through course attendance at UVU.

Diesel Mechanics Technology, Diploma

Careers

Careers:

Diesel technology students may be hired as mechanics working on engines, automatic transmissions, drive trains, electrical systems, suspension and steering, hydraulics, and air systems. They work on heavy equipment, farm equipment, and on-highway trucks. Diesel mechanics diagnose, repair, weld, and fine-tune the working parts of buses, trucks, construction machinery, and generators. Students pursuing a Bachelor of Science degree in Technology management can expect opportunities as shop managers, service writers, equipment managers, fleet managers and product development.

Related Careers

- Bus and Truck Mechanics and Diesel Engine Specialists
Aviation Science

Name: Aviation Science
Location: Provo Airport
Telephone: 801-863-7821 or 801-863-7830 (Online Global)
Email: avinfo@uvu.edu
Web Address: uvu.edu/aviation
Chair: Cory Chamberlain

Mission Statement

The mission of UVU Aviation Science is to provide a superior educational experience which prepares students for successful careers and promotes responsible citizenship in a global aviation environment. Degrees are offered through technology-enhanced traditional classroom and innovative online delivery methods. Simulations and flight training are integrated with scholarly work to create a complete and well-balanced aeronautics program. The curriculum is developed through ties with industry to incorporate changing standards in technology and procedural advances. Our student-centered approach encourages leadership and engaged life-long learning. We emphasize public awareness and safety in aviation as our commitment to the community at large.

Aviation Science

Administrative Assistant
Ashley Hollister
• Telephone: 801-863-7816
• Email: ahollister@uvu.edu
Advisors:
Dianna Bunker
• Telephone: 801-863-7851
• Email: Dianna.bunker@uvu.edu
Marilyn Riddle
• Telephone: 801-863-7852
• Email: riddlemr@uvu.edu
Theodore Okawa (Online Only)
• Telephone: 801-863-7837
• Email: aviationadvisor@uvu.edu

PROGRAMS

The School of Aviation Sciences offers several degrees that include: Associate in Applied Science in Aviation Science, Associate in Science in Aviation Science, and Bachelor of Science in Aviation Science with an emphasis in Professional Pilot or Aviation Administration, or in Bachelor of Science in Technology Management with an emphasis in Aviation Science.

Students graduating with the associate degree in Aviation may transfer to any of the Bachelor of Science options.

Note: An overall grade point average of 2.0 (C) or above is required for graduation. A grade of C- or better must be achieved in each aviation science course.

Note: All aviation science majors are required to purchase the Bedford Handbook in their first semester of study. This handbook will be utilized throughout the aviation curriculum as a standard reference to help students improve their written communications skills and ability to follow documentation and citation standards.

Aviation Science students are expected to comply with APA standards in all upper-level aviation science courses.

FLIGHT PREREQUISITE

New students must meet with an aviation academic advisor before registering for courses. A class II Medical/Student Certificate from an FAA designated Medical Examiner is required. The Medical must be completed prior to entering the flight phase of the program so that student qualifications and special needs can be determined. Because most airlines require a class I medical for employment as a pilot, students are encouraged to obtain a class I as soon as practical.

FLIGHT REQUIREMENTS

Student's entering or transferring into any Aviation Sciences program and enrolled in on-campus courses must complete their flight training at the UVU flight training facility using UVU owned aircraft. Exception waivers may be granted if they are approved in advance by both the Department Chair and Chief Flight Instructor.

Students flight training at the UVU facility may be eligible for an increased cost of attendance to obtain private (alternative) loans. In order to receive a private student loan based on these flight costs, students MUST be enrolled in the appropriate flight course section. For more information regarding student loans, please visit the UVU Financial Aid & Scholarship Office located in BA 108.

In addition to the regular tuition rate, students training at the UVU facility pay for their flight costs via course fees, which are associated with each flight course they register for. Each flight course fee has been estimated to cover costs associated with the required pilot training for a particular FAA certificate or rating. Students experiencing difficulties and fall behind may be required to pay additional flight training costs.

Students who utilize UVU aircraft are required to enroll in and attend light ground and flight course sections.

Students enrolled in live flight courses must attend their flight class by contacting the records section in HB-202B within three days after the start of the semester or they may be dropped from the class.

CAREER OPPORTUNITIES

Professional Pilot: Worldwide growth of airlines and air traffic correlates highly with economic growth. The number of passengers is expected to nearly double by 2020. Pilots and aviation/aerospace personnel work in highly technical and practical scientific environments on a daily basis; pilots have responsibility for operating single engine, multi-engine, turbo- prop, and jet aircraft in all weather conditions both day and night. Examples of jobs in the aviation field are: airline, charter and air taxi pilot, flight instructor, aerial photography and surveying, military, bush pilot/remote re-supply, medical evacuation, firefighting and spotting, Federal and State Government positions, drug enforcement, FAA safety inspectors, pipeline and transmission line patrol, recreation/sight-seeing pilot, police and traffic control, research and development, test flight, airplane sales/demonstration and generic commercial airline pilot. Graduates of the Associate in Applied Science or Associate in Science are qualified to become a commercial pilot or certified flight instructor and should qualify for entry into a four- year degree program for upper division course work. Graduates of the Bachelor of Science in Aviation Science with an emphasis in Professional Pilot are employable as a pilot by an airline after obtaining adequate flight hours and experience. Graduates may also qualify to be corporate and military pilots. Individuals who complete the Associate in Aviation Science constitute the majority of program employed flight instructors.

Students who desire to obtain a Bachelor of Science with an emphasis in Professional Pilot or Tech Management, Associate in Science Aviation or Associate in Applied Science Aviation must obtain a commercial pilot certificate with multi-engine and instrument rating.

Aviation Administration: This emphasis is designed to prepare students for careers as professional leaders in aviation. The number of individuals who travel by air will continue to grow in the years to come. Airlines and airports are looking for dedicated, qualified personnel. The Federal Aviation Administration will need to employ increasing numbers of individuals to keep up with the demand. Courses include but are not limited to: airport management, security, transportation and corporate management, and cargo operations.
The Aviation Administration emphasis will develop practical management and leadership skills for students with career goals in the aviation industry. Classes are based on real world aviation needs and will prepare students for employment in a broad range of positions including airline, corporate aviation, fixed base operations, and airport management. The Bachelor of Science with an Aviation Administration emphasis does not require pilot certificates or any medical certificates.

DEPARTMENT CHAIR
GREEN, James  
Associate Professor

FACULTY
CHAMBERLAIN, Cory  
Associate Professor
DITTMER, Peter M.  
Assistant Professor
GREEN, Darrell J.  
Assistant Professor
GREEN, James  
Associate Professor
LEICK, Ryan  
Assistant Professor
MANDARINO, Frank  
Lecturer
SCHWAB, Greg  
Professor
SMITH, Steven G.  
Associate Professor
WILLIAMS, Brice  
Associate Professor

Course Descriptions
Aviation Science..................................................................................................538

Degrees & Programs
Aviation Science, A.A.S.

Requirements
The A.A.S. degree prepares the student by concentrating on aviation courses. It is commonly referred to as the job-ready degree, preparing the student for entry level positions in the industry.

Total Program Credits: 63

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>18 Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 1010 Intermediate Algebra</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Any other Humanities</td>
<td></td>
</tr>
<tr>
<td>POLS 1000 American Heritage</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Any other Social Science</td>
<td></td>
</tr>
<tr>
<td>Any approved Biology or Physical Science Distribution Course</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness (recommended)</td>
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<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>45 Credits</th>
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<tbody>
<tr>
<td>AVSC 1010 Survey of Aviation Science</td>
<td>2</td>
</tr>
<tr>
<td>AVSC 1050 Introduction to Aviation Administration</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 1100 Ground Private Pilot</td>
<td>4</td>
</tr>
<tr>
<td>AVSC 1110 Flight Private Pilot Certification</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 1230 Flight Cross Country</td>
<td>2</td>
</tr>
<tr>
<td>AVSC 1240 Ground Instrument Pilot</td>
<td>4</td>
</tr>
<tr>
<td>AVSC 1250 Flight Instrument Pilot</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 1260 21st Century Avionics and Instrumentation</td>
<td>1</td>
</tr>
<tr>
<td>AVSC 2150 Air Transportation Management</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2160 Aviation Law</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2300 Ground Commercial Pilot</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2310 Flight Commercial Pilot</td>
<td>3</td>
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<td>AVSC 2450 Flight Multi-Engine</td>
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</tr>
<tr>
<td>AVSC 2440 Ground Multi-Engine</td>
<td>1</td>
</tr>
</tbody>
</table>

Complete one of the following sets of courses: 9

- Certified Flight Instructor
- AVSC 2400 Ground Certified Flight Instructor (4.0)
- AVSC 2410 Flight Certified Flight Instructor (1.0)
- AVSC 2420 Ground CFI Instrument (1.0)
- AVSC 2430 Flight CFI Instrument (1.0)
- AVSC 2500 Ground Multi-Engine Instructor (1.0)
- AVSC 2510 Flight Multi-Engine Instructor (1.0)
- First Officer
- AVSC 3300 Jet Transport Systems (3.0)
- AVSC 3600 Crew Resource Management (3.0)
- AVSC 4800 Professional Pilot Capstone (4.0)
- Aviation Management (Choose 9 credits)
- AVSC 3020 Aviation Insurance and Risk Management (3.0)
- AVSC 3060 Airline Management (3.0)
- AVSC 3090 Airline and Dispatch Operations (3.0)
- AVSC 3120 Airport Management (3.0)

Graduation Requirements:
1. Completion of a minimum of 63 or more semester credits.
2. Overall grade point average of 2.0 (C) or above. C- or above required for all aviation major classes.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements
5. Completion of Commercial Pilot Certificate.
6. Students may count no more than 4 credit hours of total cooperative work experience (AVSC 281/285R) toward the degree requirements without department approval.

Aviation Science, A.A.S.

Careers
Graduates of the Associate in Applied Science are qualified to become a commercial pilot or certified flight instructor. This degree transitions into the Bachelor of Science in Aviation Science with an emphasis in Professional Pilot. Students must obtain a commercial pilot certificate with multi-engine and instrument rating to complete the degree.

Related Careers
• Airline Pilots, Copilots, and Flight Engineers
• Commercial Pilots

Aviation Science, A.S.

Requirements
The A.S. degree is designed to prepare the student with all the ratings necessary to be qualified for entry-level jobs in the aviation field. Obtaining an associate degree helps
Aviation Science

the graduate prepare for a diversity of job-related responsibilities and prepares students to enter directly into the B.S. degree.

Total Program Credits: 62

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing—Humanities/Social Sciences</td>
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</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing—Science and Technology (3.0)</td>
<td></td>
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Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0) (recommended for Social Science majors)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)</td>
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Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
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<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
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<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
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</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
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<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
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<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
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Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
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</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses:

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<th>Credits</th>
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<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
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<tr>
<td>Additional Biology or Physical Science</td>
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<tr>
<td>Humanities Distribution</td>
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<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
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<tr>
<td>Social/Behavioral Science</td>
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Discipline Core Requirements: 27 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AVSC 1010</td>
<td>Survey of Aviation Science</td>
<td>2</td>
</tr>
<tr>
<td>AVSC 1050</td>
<td>Introduction to Aviation Administration</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 1100</td>
<td>Ground Private Pilot</td>
<td>4</td>
</tr>
<tr>
<td>AVSC 1110</td>
<td>Flight Private Pilot Certification</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 1230</td>
<td>Flight Cross Country</td>
<td>2</td>
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<td>AVSC 1240</td>
<td>Ground Instrument Pilot</td>
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<tr>
<td>AVSC 1250</td>
<td>Flight Instrument Pilot</td>
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<tr>
<td>AVSC 2300</td>
<td>Ground Commercial Pilot</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2310</td>
<td>Flight Commercial Pilot</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 62 or more semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)

Aviation Science, A.S.

Careers

Careers:

Graduates of the Associate in Science are qualified to become a commercial pilot or certified flight instructor. This degree transitions into the Bachelor of Science in Aviation Science with an emphasis in Professional Pilot. Students must obtain a commercial pilot certificate with multi-engine and instrument rating to complete the degree.

Related Careers

- Airline Pilots, Copilots, and Flight Engineers
- Commercial Pilots

Aviation Science - Aviation Administration Emphasis, B.S.

Requirements

This degree is designed to develop practical leadership skills for a variety of careers in the aviation industry. Courses are based on real world aviation needs and are developed through ties with industry experts. The curriculum will prepare students with a broad range of knowledge and skills, including airline and airport management, aviation security and safety, marketing, aviation finance, human resources, and many others.

Total Program Credits: 120

Matriculation Requirements:

1. Medical Requirement: Class 1 FAA medical exam
2. Completion of 25 aviation credits and a 2.5 GPA

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing—Science and Technology (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0) (recommended for Social Science majors)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 62 or more semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVSC 1010</td>
<td>Survey of Aviation Science</td>
<td>2</td>
</tr>
<tr>
<td>AVSC 1050</td>
<td>Introduction to Aviation Administration</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 1100</td>
<td>Ground Private Pilot</td>
<td>4</td>
</tr>
<tr>
<td>AVSC 2120</td>
<td>Personal Finance for Aviation Professionals</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2150</td>
<td>Air Transportation Management</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2160</td>
<td>Aviation Law</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 3030</td>
<td>Air Traffic Management</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 3110</td>
<td>Aviation Security</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 3600</td>
<td>Crew Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 410G</td>
<td>Global Ethical and Professional Issues in Aviation</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 4700</td>
<td>Safety and Professional Seminars</td>
<td>3</td>
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</tbody>
</table>

**Emphasis Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ECON 2020</td>
<td>Macroeconomics</td>
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<tr>
<td>or</td>
<td>AVSC 2090</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 2200</td>
<td>Written Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVSC 2070</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2110</td>
<td>Aviation Weather Applications</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2130</td>
<td>Aviation Safety</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2710</td>
<td>Aviation Marketing and Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2750</td>
<td>Unmanned Aircraft Systems</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 3020</td>
<td>Aviation Insurance and Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 3150</td>
<td>Principles of Aviation Management</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 3310</td>
<td>Aviation Logistics Management</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 3320</td>
<td>Aviation Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>AVSC 3350</td>
<td>Aviation Labor and Human Resource</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 4020</td>
<td>Applied Aviation Finance</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 4900</td>
<td>Aviation Administration Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

**Emphasis Elective Requirements:**

Must complete 12 credits from the following elective courses, 6 credits must be upper-division:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVSC 1110</td>
<td>Flight Private Pilot Certification</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 1230</td>
<td>Flight Cross Country</td>
<td>2</td>
</tr>
<tr>
<td>AVSC 1240</td>
<td>Ground Instrument Pilot</td>
<td>4</td>
</tr>
<tr>
<td>AVSC 1250</td>
<td>Flight Instrument Pilot</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2300</td>
<td>Ground Commercial Pilot</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2310</td>
<td>Flight Commercial Pilot</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2400</td>
<td>Ground Certified Flight Instructor</td>
<td>4</td>
</tr>
</tbody>
</table>
## Aviation Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVSC 2410</td>
<td>Flight Certified Flight Instructor</td>
<td>1.0</td>
</tr>
<tr>
<td>AVSC 3060</td>
<td>Airline Management</td>
<td>3.0</td>
</tr>
<tr>
<td>AVSC 3090</td>
<td>Airline and Dispatch Operations</td>
<td>3.0</td>
</tr>
<tr>
<td>AVSC 3120</td>
<td>Airport Management</td>
<td>3.0</td>
</tr>
<tr>
<td>AVSC 3210</td>
<td>Aircraft Incident and Emergency Management</td>
<td>3.0</td>
</tr>
</tbody>
</table>

## Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, with a minimum of 40 upper division semester credits.
2. Overall grade point average of 2.0 (C) or above. Aviation courses require a C- or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements unique to the area of emphasis. Students in the Professional Pilot emphasis should obtain an FAA Class I or II Medical Certificate prior to beginning flight training.
6. Students may count no more than 8 credit hours of total cooperative work experience (AVSC 281R/285R/481R/485R) toward the degree requirements without department approval.
7. Successful completion of at least one Global/Intercultural course.

NOTE: If student chooses HIST 2700 and 2710, the additional hours may be used towards a social science distribution requirement.

### Aviation Science - Aviation Administration Emphasis, B.S.

#### Careers

Aviation Administration: this emphasis is designed to prepare students for careers as professional leaders in aviation. Courses include but are not limited to: airport management, security, transportation and corporate management, and cargo operations. The Aviation Administration emphasis will develop practical management and leadership skills for students with career goals in the aviation industry. Classes are based on real world aviation needs and will prepare students for employment in a broad range of positions including airline, corporate aviation, fixed base operations, and airport management.

#### Related Careers

- Airline Pilots, Copilots, and Flight Engineers
- Commercial Pilots

### Aviation Science - Professional Pilot Emphasis, B.S.

#### Requirements

This degree prepares the student to enter the work force as a professional pilot at an intermediate to advanced level. The degree builds on the foundation in the A.S. and A.A.S. degrees. Students can obtain additional advanced ratings and deepen their knowledge of the pilot profession through an impressive range of course subject matter. Specific courses are designed to help the student pilot receive the training necessary to qualify for employment with a commuter airline.

#### Total Program Credits: 120

### Matriculation Requirements:

1. Medical Requirement: Class 1 FAA medical exam
### Aviation Science - Professional Pilot Emphasis, B.S.

#### Careers

Examples of jobs in the aviation field are: airline, charter and air taxi pilot, flight instructor, aerial photography and surveying, military, bush pilot/remote re-supply, medical evacuation, firefighting and spotting, Federal and State Government positions, drug enforcement, FAA safety inspectors, pipeline and transmission line patrol, recreation/sight-seeing pilot, police and traffic control, research and development, test flight, airplane sales/demonstration, and commercial airline pilot.

#### Related Careers
- Airline Pilots, Copilots, and Flight Engineers
- Commercial Pilots

#### Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, with a minimum of 40 upper division semester credits.
2. Overall grade point average of 2.0 (C) or above. Aviation courses require a C- or above. (Departments may require a higher GPA.)
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7. Successful completion of at least one Global/Intercultural course.

NOTE: If student chooses HIST 2700 and 2710, the additional hours may be used towards a social science distribution requirement.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVSC 1240</td>
<td>Ground Instrument Pilot</td>
<td>4</td>
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<tr>
<td>AVSC 1250</td>
<td>Flight Instrument Pilot</td>
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</tr>
<tr>
<td>AVSC 1260</td>
<td>21st Century Avionics and Instrumentation</td>
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</tr>
<tr>
<td>AVSC 2300</td>
<td>Ground Commercial Pilot</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2310</td>
<td>Flight Commercial Pilot</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 2440</td>
<td>Ground Multi-Engine</td>
<td>1</td>
</tr>
<tr>
<td>AVSC 2450</td>
<td>Flight Multi-Engine</td>
<td>1</td>
</tr>
<tr>
<td>AVSC 3010</td>
<td>Flight Environment</td>
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</tr>
<tr>
<td>AVSC 3200</td>
<td>Flight Physiology</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 3300</td>
<td>Jet Transport Systems</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 3400</td>
<td>High Altitude Navigation/International Flight Operations</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 3530</td>
<td>Advanced Aerodynamics</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 4800</td>
<td>Professional Pilot Capstone</td>
<td>4</td>
</tr>
</tbody>
</table>

Emphasis Elective Requirements: 12 Credits

Must complete 12 credits from the following courses, including 6 hours of upper division.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AVSC 1120</td>
<td>Basic Aircraft Systems</td>
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</tr>
<tr>
<td>AVSC 2130</td>
<td>Aviation Safety</td>
<td>3.0</td>
</tr>
<tr>
<td>AVSC 2400</td>
<td>Ground Certified Flight Instructor (4.0)</td>
<td></td>
</tr>
<tr>
<td>AVSC 2410</td>
<td>Flight Certified Flight Instructor (1.0)</td>
<td></td>
</tr>
<tr>
<td>AVSC 2420</td>
<td>Ground CFI Instrument (1.0)</td>
<td></td>
</tr>
<tr>
<td>AVSC 2430</td>
<td>Flight CFI Instrument (1.0)</td>
<td></td>
</tr>
<tr>
<td>AVSC 2500</td>
<td>Ground Multi-Engine Instructor (1.0)</td>
<td></td>
</tr>
<tr>
<td>AVSC 2510</td>
<td>Flight Multi-Engine Instructor (1.0)</td>
<td></td>
</tr>
<tr>
<td>AVSC 2710</td>
<td>Aviation Marketing and Customer Service (3.0)</td>
<td></td>
</tr>
<tr>
<td>AVSC 2750</td>
<td>Unmanned Aircraft Systems</td>
<td>3.0</td>
</tr>
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<td>Airline Management</td>
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<td>AVSC 3120</td>
<td>Airport Management</td>
<td>3.0</td>
</tr>
<tr>
<td>AVSC 3210</td>
<td>Aircraft Incident and Emergency Management (3.0)</td>
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<tr>
<td>AVSC 475R</td>
<td>Current Topics in Aviation</td>
<td>1.0</td>
</tr>
</tbody>
</table>
Basic Composition

Name: Basic Composition
Location: LA 234
Telephone: 801-863-6387
Email: ltoro@uvu.edu
Web Address: www.uvu.edu/basiccomp
Chair: Deborah Marrott
Chair UVU Email: MARROTTDE@uvu.edu

Basic Composition

Department Chair: Deborah Marrott

- Office: LA 234f
- Telephone: 801-863-8823
- Email: marrottde@uvu.edu

Administrative Support:
Laurie Toro

- Office: LA 234a
- Telephone: 801-863-6387
- Email: ltoro@uvu.edu
- Mail Stop: 276

Advisor: Gayla Amosa

- Office: LA 209f
- Telephone: 801-863-8729
- Email: gayla.amosa@uvu.edu

The Basic Composition Program understands that all students bring with them rich and diverse histories, knowledge, skills, and literacies that can be applied to the literacy work they will take part in as college students at UVU. We are committed to providing opportunities for students to recognize their own oral, written, and visual literacies as relevant to the academic setting and to helping them develop these literacies for the work they will do in the academy, in the workplace, and in their personal lives.

University College

University College serves a unique role and mission within Utah Valley University. Based on a national model, the name University College signifies opportunity for student success through curricular and co-curricular offerings, academic services, and innovative programs. University College welcomes students at present levels of achievement and challenges them with higher expectations. The programs and departments of Basic Composition, Student Leadership & Success Studies, Developmental Mathematics, English Language Learning, Academic Counseling Center, Academic Standards, First Year Experience & Student Retention, and Tutoring and Academic Skills Services (TASS) promote interdisciplinary partnerships as students transition into university academics.

- Dean: Forrest Williams
  - Office: LA 210c
  - Telephone: 801-863-8494
  - Email: forrest.williams@uvu.edu

- Administrative Support: Beth Winkler
  - Office: LA 210
  - Telephone: 801-863-6712
  - Email: beth.winkler@uvu.edu

- Associate Dean: Talitha Hudgins
  - Office: LA 210e
  - Telephone: 801-863-6963
  - Email: thudgins@uvu.edu

- Assistant Dean: Jessica Awtrey
  - Office: LA 210d
  - Telephone: 801-863-6766
  - Email: jessica.awtrey@uvu.edu

DEPARTMENT CHAIR
MARROTT, Deborah R. Professor

FACULTY
BENDER, Melinda A. Professor
DUTTAGUPTA, Chitralekha Associate Professor
GARCIA, Elena G. Assistant Professor
GOODWIN, Benjamin G. Lecturer
HENRY, Thomas Associate Professor
HILST, Joshua Assistant Professor
MARROTT, Deborah R. Professor
PRESTON, Jacqueline Assistant Professor
RYSDAM, Sheri Assistant Professor

Course Descriptions

English Basic Composition...................................................................................615
Behavioral Science

Name: Behavioral Science
Location: CB 207
Telephone: 801-863-8083 or 801-863-6211
Email: BESC_OFFICE@uvu.edu
Web Address: www.uvu.edu/besc
Chair: Kris Doty
Chair Email: Kris.Doty@uvu.edu

Mission Statement
The Behavioral Science department is a rigorous interdisciplinary program (Anthropology, Family Studies, Psychology, Social Work, Sociology, Substance Use Disorder Counseling, and Autism Studies) that prepares students to make positive contributions in their academic, work, and community settings by developing their understanding of human functioning in various contexts. We promote and mentor student engagement with each other and with their academic, professional, or geographic communities in order to achieve essential learning outcomes.

Behavioral Science
Please see our department site for the most up to date and accurate information.

Advisors:
To find out who your assigned advisor is and schedule an appointment please visit: http://www.uvu.edu/besc/bescacademicadvising.html

- Cindy Lau (last names A-E)
  - Telephone: 801-863-8120
  - Email: Cindy.Lau@uvu.edu
- Giovana Alisa (last names F-Le)
  - Telephone: 801-863-8073
  - Email: alisagi@uvu.edu
- Travis Reynolds (last names LF-Ri)
  - Telephone: 801-863-5347
  - Email: Travis.Reynolds@uvu.edu
- Lori Duke
  - Telephone: 801-863-6718 (last names Rj-Z)
  - Email: dukelo@uvu.edu

Administrative Support:
- Keira Davis
  - Telephone: 801-863-8083
  - Email: Keira.Davis@uvu.edu
  - Mail Stop: 115
- Megan Olivera
  - Telephone: 801-863-6211
  - Email: Megan.Olivera@uvu.edu

Program Coordinators:
- Anthropology: Dr. David Knowlton
  - Telephone: 801-863-6196
  - Email: dknowlton@uvu.edu
- Autism Studies: Dr. Teresa Cardon
  - Telephone: 801-863-5517
  - Email: Teresa.Cardon@uvu.edu
- Bachelor of Social Work: Dr. Lars Eggertsen
  - Telephone: 801-863-6731
  - Email: larse@uvu.edu
- Family Studies: Dr. Nathan Cottle
  - Telephone: 801-863-5105
  - Email: NCottle@uvu.edu
- Psychology & Sociology: Dr. Cameron John
  - Telephone: 801-863-8809
  - Email: Cameron.John@uvu.edu
- Substance Use Disorder Counseling: Dr. David Yells
  - Telephone: 801-863-8585
  - Email: David.Yells@uvu.edu

Programs/Degrees
- Associate in Art or Science in Behavioral Science
- Bachelor of Art or Science in Behavioral Science
- Bachelor of Social Work
- Substance Use Disorder Counseling Certificate of Proficiency
- Autism Studies Minor

DEPARTMENT CHAIR
DOTY, Kristine Associate Professor

FACULTY
ANDERSON, Christopher D Lecturer
BODEN, Jeremy Lecturer
BRETON, Brett Assistant Professor
CARDON, Teresa Assistant Professor
CHOU, Grace Professor
COTTLE, Nathan Associate Professor
DOTY, Kristine Associate Professor
DRAPER, Matthew Professor
EGGERTSEN, Lars Associate Professor
GOLDEN, Tracy Assistant Professor
HAMMOND, Ronald J. Professor
HILL, Jessica Assistant Professor
JOHN, Cameron R. Associate Professor
KNOWLTON, David Clark Professor
LIEBERWIRTH, Claudia Assistant Professor
MISBACH, Alan R. Assistant Professor
POULSON, Barton Associate Professor
RICHARDS, Grant L. Professor
SCHLOSNAGLE, Leo Assistant Professor
SIMON, Alexander Associate Professor
TOLMAN, Anton Professor
TORLINA, Jeffrey Associate Professor
WARNE, Russell T. Assistant Professor
YODER, David Lecturer

Course Descriptions
Anthropology....................................................................................................... 519
Archaeology........................................................................................................ 522
Behavioral Science..............................................................................................544
Family Studies..................................................................................................... 636
Behavioral Science

Psychology................................................................. 716
Sociology................................................................. 725
Substance Use Disorder Counseling.............................. 729
Social Work.............................................................. 732

Degrees & Programs

Behavioral Science, A.A.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology), a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Program Credits: 61

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing–Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing–Science and Technology</td>
<td>3</td>
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</table>

Complete one of the following:

- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0) *
- MATH 1050 College Algebra (4.0)

Complete one of the following:

- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0) **

Complete the following:

- PHIL 2050 Ethics and Values | 3 |
- HLTH 1100 Personal Health and Wellness | 2 |
| or PES 1097 Fitness for Life (2.0) | |

Distribution Courses:

- Biology | 3 |
- Physical Science | 3 |
- Additional Biology or Physical Science | 3 |
- Humanities Distribution | 3 |
- Fine Arts Distribution | 3 |
- PSY 1010 General Psychology (Social/Behavioral Science) | 3 |

Discipline Core Requirements: 18 Credits

Complete the following four courses:

- ANTH 101G Social/Cultural Anthropology (3.0)
- SOC 1010 Introduction to Sociology (3.0)
- FAMS 101G Contemporary Families (3.0)
- SW 1010 Introduction to Social Work (3.0)

Complete any two courses from the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANTH 1020</td>
<td>Biological Anthropology (3.0)</td>
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</tr>
<tr>
<td>ANTH 1030</td>
<td>World Prehistory (3.0)</td>
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</tr>
<tr>
<td>ANTH 180G</td>
<td>Introduction to American Indian Studies (3.0)</td>
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</tr>
<tr>
<td>ANTH 2030</td>
<td>Archeological Method and Theory (3.0)</td>
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</tr>
<tr>
<td>BESC 107G</td>
<td>Multicultural Societies (3.0)</td>
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<tr>
<td>BESC 2705</td>
<td>Ethics for the Behavioral Sciences (3.0)</td>
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<tr>
<td>PSY 1100</td>
<td>Human Development Life Span (3.0) ***</td>
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<tr>
<td>FAMS 1150</td>
<td>Marriage and Relationship Skills (3.0) ***</td>
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<tr>
<td>PSY 2250</td>
<td>Psychology of Interpersonal Relationships (3.0) ***</td>
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<tr>
<td>PSY 2400</td>
<td>Positive Psychology (3.0)</td>
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<tr>
<td>PSY 275R</td>
<td>Survey of Current Topics (1.0)</td>
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</tr>
<tr>
<td>PSY 2800</td>
<td>Human Sexuality (3.0) ***</td>
<td></td>
</tr>
<tr>
<td>SOC 1020</td>
<td>Modern Social Problems (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 2370</td>
<td>Gender Roles (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 275R</td>
<td>Survey of Current Topics (1.0)</td>
<td></td>
</tr>
<tr>
<td>SW 275R</td>
<td>Survey of Current Topics (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Elective Requirements: 8 Credits

Complete 1010 and 1020 of the same Foreign Language 8

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall GPA of 2.0 or above upon graduation.
3. Minimum of a 2.5 cumulative GPA or higher in the Behavioral Science courses (ANTH, BESC, FAMS, SW, SOC, PSY).
4. Residency hours–minimum of 20 credit hours through course attendance at UVU.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote

* Recommended for BA/BS in Behavioral Science.
** Recommended if student is considering an MSW program.
*** Recommended for students considering the Behavioral Science Bachelor degree with a Family Studies emphasis.

Behavioral Science, A.A.

Careers

Behavioral Science, A.A. Careers

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary
Behavioral Science, A.S.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0) (recommended)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0) *</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>PSY 1010 General Psychology (Social/Behavioral Science)</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 18 Credits

Complete the following four courses: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101G</td>
<td>Social/Cultural Anthropology (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 1010</td>
<td>Introduction to Sociology (3.0)</td>
<td></td>
</tr>
<tr>
<td>FAMS 101G</td>
<td>Contemporary Families (3.0)</td>
<td></td>
</tr>
<tr>
<td>SW 1010</td>
<td>Introduction to Social Work (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete any two courses from the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1020</td>
<td>Biological Anthropology (3.0)</td>
<td></td>
</tr>
<tr>
<td>ANTH 1030</td>
<td>World Prehistory (3.0)</td>
<td></td>
</tr>
<tr>
<td>ANTH 180G</td>
<td>Introduction to American Indian Studies (3.0)</td>
<td></td>
</tr>
<tr>
<td>ANTH 2030</td>
<td>Archeological Method and Theory (3.0)</td>
<td></td>
</tr>
<tr>
<td>BESC 107G</td>
<td>Multicultural Societies (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Elective Requirements: 8 Credits

Any additional courses 1000-level or higher.

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall GPA of 2.0 or above upon graduation.
3. Minimum of a 2.5 cumulative GPA or higher in the Behavioral Science courses (ANTH, BESC, FAMS, SW, SOC, PSY).
4. Residency hours—minimum of 20 credit hours through course attendance at UVU.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote

* Recommended for BA/BS in Behavioral Science.
** Recommended if student is considering an MSW program.
*** Recommended for students considering the Behavioral Science Bachelor degree with a Family Studies emphasis.

Behavioral Science, A.S.

Careers

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Advanced Substance Use Disorder Counseling, Certificate of Proficiency

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of
Behavioral Science

Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Program Credits: 32

Matriculation Requirements: 6 Credits

Students must apply and be admitted to the UVU SUDC program. The following three courses must be completed with a C- grade or higher prior to starting the SUDC program and must be verified on the application for admission. For additional admission information for this program please visit www.uvu.edu/besc/sudc.html.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>PSY 1010</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 1100</td>
<td>Human Development Life Span</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 23 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUDC 4710</td>
<td>Introduction to Professional Development</td>
<td>2</td>
</tr>
<tr>
<td>SUDC 4300</td>
<td>Introduction to Substance Use Disorder Counseling</td>
<td>3</td>
</tr>
<tr>
<td>SUDC 3470</td>
<td>Dynamics of Addiction</td>
<td>3</td>
</tr>
<tr>
<td>SUDC 3430</td>
<td>Psychopharmacology for the Substance Use Disorder Counseling Field</td>
<td>3</td>
</tr>
<tr>
<td>SUDC 4400</td>
<td>Advanced Substance Use Disorder Counseling</td>
<td>3</td>
</tr>
<tr>
<td>SUDC 4720</td>
<td>Advanced Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>SUDC 481R</td>
<td>Internship</td>
<td>6</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 32 semester credits.
2. Overall grade point average of 2.0 or above.
3. Upon completion of the UVU SUDC Certificate of Proficiency program, students will work with the Utah Division of Occupational and Professional Licensing (DOPL) in regards to meeting the additional licensing requirements and obtaining their SUDC or ASUDC license(s).
4. Residency hours -- minimum of 8 credit hours through course attendance at UVU.

Advanced Substance Use Disorder Counseling, Certificate of Proficiency

Careers:

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Substance Abuse and Behavioral Disorder Counselors
- Mental Health Counselors

Autism Studies, Certificate of Proficiency

Careers:

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Substance Use Disorder Counseling, Certificate of Proficiency

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Program Credits: 23

Matriculation Requirements: 9 Credits

Students must apply and be admitted to the UVU SUDC program. The following three courses must be completed with a C- grade or higher prior to starting the SUDC program and must be verified on the application for admission. For additional admission information for this program please visit www.uvu.edu/besc/sudc.html.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>PSY 1010</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 1100</td>
<td>Human Development Life Span</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 14 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUDC 4710</td>
<td>Introduction to Professional Development</td>
<td>2</td>
</tr>
</tbody>
</table>
Substance Use Disorder Counseling, Certificate of Proficiency

Careers

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Substance Abuse and Behavioral Disorder Counselors
- Mental Health Counselors

Autism Studies, Minor

Careers

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Behavioral Science - Anthropology Emphasis, B.A.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Program Credits: 120

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0) (recommended)</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030 Quantitative Reasoning (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040 Introduction to Statistics (3.0) (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050 College Algebra (4.0)</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2710 US History since 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740 US Economic History (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000 American Heritage (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100 American National Government (3.0)**</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

Distribution Courses: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 19 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>or Writing proficiency determined by Autism Studies program director</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 2500 Understanding the Autism Spectrum</td>
<td>3</td>
</tr>
<tr>
<td>SW 3810 Autism Across the Lifespan I Infants and Children</td>
<td>3</td>
</tr>
<tr>
<td>SW 3820 Autism across the Lifespan II Teens and Adults</td>
<td>3</td>
</tr>
<tr>
<td>SW 3850 Autism Assessment and Treatment</td>
<td>3</td>
</tr>
<tr>
<td>SW 4650 Autism and Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SW 481R Field Placement</td>
<td>3</td>
</tr>
<tr>
<td>SW 482R Autism Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>
Behavioral Science

**Behavioral Science Electives (2 courses/6 credits).** In addition to the requirements listed above, students must complete 6 credits of approved Behavioral Science electives. These courses must come from ANTH/BESC/FAMS/PSY/SOC/SW. Please see a Behavioral Science advisor for a list of approved courses.

**Graduation Requirements:**

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum overall UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, 202G/2020 levels or transferred equivalents.
7. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

**Footnote**

**Recommended if student is considering an MSW program.**

**Behavioral Science - Anthropology Emphasis, B.A.**

**Careers:**

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

**Related Careers**

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

**Behavioral Science - Anthropology Emphasis, B.S.**

**Requirements**

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).)

**Total Program Credits: 120**

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing—Humanities/Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 1010</td>
<td>General Psychology (Social/Behavioral Science)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Complete the following seven courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101G</td>
<td>Social/Cultural Anthropology (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 1010</td>
<td>General Psychology (3.0) (completed with GE requirements)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1010</td>
<td>Introduction to Sociology (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 101G</td>
<td>Contemporary Families (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>SW 1010</td>
<td>Introduction to Social Work (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>BESC 3010</td>
<td>Statistics for the Behavioral Sciences (4.0)</td>
<td>3</td>
</tr>
<tr>
<td>BESC 3020</td>
<td>Research Methods for the Behavioral Sciences (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Requirement (16 credits in the same foreign language, includes ASL)</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Any course numbered 1000 or higher</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Emphasis Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1020</td>
<td>Biological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 1030</td>
<td>World Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3000</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Archeology Core Requirement - Complete one of the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2030</td>
<td>Archeological Method and Theory (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3250</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3710</td>
<td>Human Skeletal Anatomy and Analysis (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3750</td>
<td>Bioarchaeology (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Anthropology Theory and Methods Requirement - Complete the following courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 3850</td>
<td>Ethnographic Methods</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 4120</td>
<td>History of Anthropological Thought</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 4130</td>
<td>Contemporary Theory and Debates</td>
<td>3</td>
</tr>
</tbody>
</table>

**Anthropology Culture Requirement - Complete two of the following courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 3150</td>
<td>Culture Ecology and Health (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3200</td>
<td>Anthropology of Food (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3300</td>
<td>Development and Rural Societies (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3340</td>
<td>Peoples and Cultures of Mexico (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3350</td>
<td>Andean Prehistory (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3360</td>
<td>Contemporary Issues in American Culture (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3370</td>
<td>History and Ethnography of Andean Societies (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3420</td>
<td>Andean Religion (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3720</td>
<td>Applied Anthropology (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>Approved sections of ANTH 475R - see advisors for options</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Upper Division Anthropology Requirement:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose five upper-division (3000 or higher) ANTH courses for a total of 15 credits</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

**Emphasis Elective Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANY 6 Credits</td>
<td>Behavioral Science Electives</td>
<td>6</td>
</tr>
</tbody>
</table>
Complete one of the following:

- **ENGL 2020** Intermediate Writing—Science and Technology (3.0) (recommended)

Complete one of the following:

- **MATH 1030** Quantitative Reasoning (3.0)
- **MATH 1040** Introduction to Statistics (3.0) (recommended)
- **MATH 1050** College Algebra (4.0)

Complete one of the following:

- **HIST 2700** US History to 1877 (3.0)
- **HIST 2710** US History since 1877 (3.0)

Complete the following:

- **PHIL 2050** Ethics and Values (3.0)
- **HLTH 1100** Personal Health and Wellness (2.0)
- **PES 1097** Fitness for Life (2.0)

**Distribution Courses:**

- Biology (3.0)
- Physical Science (3.0)
- Additional Biology or Physical Science (3.0)
- Humanities Distribution (3.0)
- Fine Arts Distribution (3.0)
- **PSY 1010** General Psychology (Social/Behavioral Science) (3.0)

**Discipline Core Requirements:**

- Complete the following seven courses: 19 Credits

  - **ANTH 101G** Social/Cultural Anthropology (3.0)
  - **PSY 1010** General Psychology (3.0) (completed with GE requirements)
  - **SOC 1010** Introduction to Sociology (3.0)
  - **FAMS 101G** Contemporary Families (3.0)
  - **SW 1010** Introduction to Social Work (3.0)
  - **BESC 3010** Statistics for the Behavioral Sciences (4.0)
  - **BESC 3020** Research Methods for the Behavioral Sciences (3.0)

**Elective Requirements:**

- General Elective Requirement (18 elective credits from any courses 1000 level or higher) 18 Credits
- Emphasis Requirements: 42 Credits

**Anthropology Theory and Methods Requirement - Complete the following courses:**

- **ANTH 3750** Bioarchaeology (3.0)

**Anthropology Culture Requirement - Complete two of the following courses:**

- **ANTH 3150** Culture Ecology and Health (3.0)
- **ANTH 3200** Anthropology of Food (3.0)
- **ANTH 3300** Development and Rural Societies (3.0)
- **ANTH 3340** Peoples and Cultures of Mexico (3.0)
- **ANTH 3350** Andean Prehistory (3.0)
- **ANTH 3360** Contemporary Issues in American Culture (3.0)
- **ANTH 3370** History and Ethnography of Andean Societies (3.0)
- **ANTH 3420** Andean Religion (3.0)
- **ANTH 3720** Applied Anthropology (3.0)

Approved sections of ANTH 475R - see advisors for options

**Upper Division Anthropology Requirement:**

- Complete five upper division (3000 or higher) ANTH courses for a total of 15 credits 15 Credits

**Emphasis Elective Requirements:**

- Behavioral Science Electives (2 courses / 6 credits). In addition to the requirements listed above, students must complete 6 credits of approved Behavioral Science electives. These courses must come from ANTH/BESC/FAMS/PSY/SOC/SW and they can be 1000 level or higher. Please see a Behavioral Science advisor for a list of approved courses. 6 Credits

**Graduation Requirements:**

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

**Footnote**

**Recommended if student is considering an MSW program.

**Behavioral Science - Anthropology Emphasis, B.S.**

**Careers**

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, etc.
Behavioral Science

management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

**Related Careers**
- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

**Behavioral Science - Family Studies Emphasis, B.A.**

**Requirements**
The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

**Total Program Credits: 120**

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0) (recommended)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following:

| MATH 1030 Quantitative Reasoning (3.0) | |
| MATH 1040 Introduction to Statistics (3.0) (recommended) | |
| MATH 1050 College Algebra (4.0) | |

Complete one of the following:

| HIST 2700 US History to 1877 (3.0) | |
| HIST 2710 US History since 1877 (3.0) | |
| HIST 1700 American Civilization (3.0) | |
| HIST 1740 US Economic History (3.0) | |
| POLS 1000 American Heritage (3.0) | |
| POLS 1100 American National Government (3.0)** | |

Complete the following:

| PHIL 2050 Ethics and Values | 3 |
| HILTH 1100 Personal Health and Wellness | 2 |
| or PES 1097 Fitness for Life (2.0) | |

**Distribution Courses:**

| Biology | 3 |
| Physical Science | 3 |
| Additional Biology or Physical Science | 3 |
| Humanities Distribution | 3 |
| Fine Arts Distribution | 3 |
| PSY 1010 General Psychology (Social/Behavioral Science) | 3 |

Discipline Core Requirements: 19 Credits

Complete the following seven courses: 19

| ANTH 101G Social/Cultural Anthropology (3.0) | |
| PSY 1010 General Psychology (3.0) (completed with GE requirements) | |
| SOC 1010 Introduction to Sociology (3.0) | |
| FAMS 101G Contemporary Families (3.0) | |
| SW 1010 Introduction to Social Work (3.0) | |
| BESC 3010 Statistics for the Behavioral Sciences (4.0) | |
| BESC 3020 Research Methods for the Behavioral Sciences (3.0) | |

Elective Requirements: 18 Credits

| Language Requirement (16 credits in the same foreign language, includes ASL) | 16 |
| Any course numbered 1000 or higher | 2 |

Emphasis Requirements: 42 Credits

Family Studies Core Requirement - Complete the following courses:

| PSY 1100 Human Development Life Span | 3 |
| FAMS 1150 Marriage and Relationship Skills | 3 |
| BESC 2705 Ethics for the Behavioral Sciences | 3 |
| PSY 2800 Human Sexuality | 3 |
| FAMS 3250 Applied Parenting | 3 |
| FAMS 4400 Family Policy | 3 |
| FAMS 4500 Family Life Education Methodology | 3 |
| FAMS 4660 Family Financial and Resource Management | 3 |
| FAMS 4670 Family Dynamics and Systems | 3 |

Advanced Research Requirement - Complete one of the following courses:

| PSY 4010 Experimental Psychology (3.0) | |
| SOC 4020 Survey Research Design (3.0) | |
| BESC 4040 Applied Behavioral Science Research (3.0) | |
| BESC 4050 Clinical Research (3.0) | |

Complete one of the following tracks: 9

Development Track - Complete the following courses:

| PSY 3200 Infancy and Childhood Development (3.0) | |
| PSY 3210 Adolescent Development (3.0) | |
| PSY 3220 Adult Development (3.0) | |

Mediation Track - Complete the following courses:

| BESC 3410 Fundamentals of Mediation and Negotiation (3.0) | |
| BESC 3420 Communication and Conflict (3.0) | |
| BESC 4200 Advanced Mediation and Negotiation (3.0) | |

Counseling Track:

| PSY 3400 Abnormal Psychology (required) (3.0) | |
| and two of the following courses: | |
| PSY 4300 Introduction to Counseling and Psychotherapy (3.0) | |
| FAMS 4700 Introduction to Marriage and Family Therapy (3.0) | |
| SW 4400 Introduction to Group Psychotherapy (3.0) | |

Internship Requirement: 3 Credits

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FAMS 485R Internship Seminar (1.0)

and two credits from the following:

FAMS 481R Senior Internship (1.0)
FAMS 482R Strengthening Families Internship (1.0)

Emphasis Elective Requirements: 6 Credits

Behavioral Science electives (2 courses /6 credits). In addition to the requirements listed above, students must complete 6 credits of approved Behavioral Science electives; 3 credits must be upper-division. They can come from ANTH/BESC/FAMS/PSY/SOC/SW.

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum overall UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, 202G/2020 levels or transferred equivalents.
7. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote

** Recommended if student is considering an MSW program.

Behavioral Science - Family Studies Emphasis, B.A.

Careers:

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Behavioral Science - Family Studies Emphasis, B.S.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).
Behavioral Science

BESC 2705 Ethics for the Behavioral Sciences 3
PSY 2800 Human Sexuality 3
FAMS 3250 Applied Parenting 3
FAMS 4400 Family Policy 3
FAMS 4500 Family Life Education Methodology 3
FAMS 4660 Family Financial and Resource Management 3
FAMS 4670 Family Dynamics and Systems 3

Advanced Research Requirement - Complete one of the following courses:
PSY 4010 Experimental Psychology (3.0)
SOC 4020 Survey Research Design (3.0)
BESC 4040 Applied Behavioral Science Research (3.0)
BESC 4050 Clinical Research (3.0)

Complete one of the following tracks: 9
Development Track - Complete the following courses:
PSY 3200 Infancy and Childhood Development (3.0)
PSY 3210 Adolescent Development (3.0)
PSY 3220 Adult Development (3.0)

Mediation Track - Complete the following courses:
BESC 3410 Fundamentals of Mediation and Negotiation (3.0)
BESC 3420 Communication and Conflict (3.0)
BESC 4200 Advanced Mediation and Negotiation (3.0)

Counseling Track
PSY 3400 Abnormal Psychology (required) (3.0)
and two of the following courses:
PSY 4300 Introduction to Counseling and Psychotherapy (3.0)
FAMS 4700 Introduction to Marriage and Family Therapy (3.0)
PSY 4400 Introduction to Group Psychotherapy (3.0)

Internship Requirement: 3
FAMS 485R Internship Seminar (1.0)
and two credits from the following:
FAMS 481R Senior Internship (1.0)
FAMS 482R Strengthening Families Internship (1.0)

Emphasis Elective Requirements: 6 Credits
Behavioral Science electives (2 courses /6 credits). In addition to the requirements listed above, students must complete 6 credits of approved Behavioral Science electives; 3 credits must be upper-division. They can come from ANTH/BESC/FAMS/PSY/SOC/SW.

Graduation Requirements:
1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote
** Recommended if student is considering an MSW program.

Behavioral Science - Family Studies Emphasis, B.S.

Careers
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers
- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Behavioral Science - Psychology Emphasis, B.A.

Requirements
The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Program Credits: 120

General Education Requirements: 35 Credits
ENGL 1010 Introduction to Writing 3
ENGL 2010 Intermediate Writing–Humanities/Social Sciences 3
or ENGL 2020 Intermediate Writing–Science and Technology (recommended) (3.0)

Complete one of the following: 3
MATH 1030 Quantitative Reasoning (3.0)
MATH 1040 Introduction to Statistics (3.0) (recommended)
MATH 1050 College Algebra (4.0)

Complete the following: 3
HIST 2700 US History to 1877 (3.0)
and HIST 2710 US History since 1877 (3.0)
HIST 1700 American Civilization (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)**
### Behavioral Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life (2.0)</td>
<td></td>
</tr>
<tr>
<td><strong>Distribution Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PSY 1010</td>
<td>General Psychology (Social/Behavioral Science)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements:** 19 Credits

Complete the following seven courses: 19

- ANTH 101G Social/Cultural Anthropology (3.0)
- PSY 1010 General Psychology (completed with GE requirements) (3.0)
- SOC 1010 Introduction to Sociology (3.0)
- FAMS 101G Contemporary Families (3.0)
- SW 1010 Introduction to Social Work (3.0)
- BESC 3010 Statistics for the Behavioral Sciences (4.0)
- BESC 3020 Research Methods for the Behavioral Sciences (3.0)

**Elective Requirements:** 18 Credits

- Language Requirement (16 credits in the same foreign language, includes ASL) 16
- Any course numbered 1000 or higher 2

**Emphasis Requirements:** 39 Credits

**Advanced Research Requirement - Complete one of the following courses:** 3

- BESC 4040 Applied Behavioral Science Research (3.0)
- BESC 4050 Clinical Research (3.0)
- PSY 4010 Experimental Psychology (3.0)
- PSY 4150 Tests and Measurements (3.0)
- SOC 4020 Survey Research Design (3.0)

**Social and Diversity Requirement** 6

Complete the following course:

- PSY 3500 Social Psychology (3.0)

**Complete one of the following courses:**

- ANTH 3700 Psychological Anthropology (3.0)
- PSY 3100 Psychology of Gender (3.0)
- PSY 3850 Psychology of Good and Evil (3.0)
- PSY 4461 Moral Psychology (3.0)
- SOC 3520 Environmental Sociology (3.0)

**Development Requirement** 6

Complete the following course:

- PSY 3200 Infancy and Childhood Development (3.0)
- SW 3810 Autism Across the Lifespan I Infants and Children (3.0)

Complete the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BESC 3550</td>
<td>Thanatology–Death and Dying (3.0)</td>
<td></td>
</tr>
<tr>
<td>PSY 3210</td>
<td>Adolescent Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>PSY 3220</td>
<td>Adult Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>SW 3820</td>
<td>Autism across the Lifespan II Teens and Adults (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

**Personality and Clinical Requirement** 9

Complete the following two courses:

- PSY 3400 Abnormal Psychology (3.0)
- PSY 3460 Personality Theory (3.0)

Complete one of the following courses:

- BESC 380G Interviewing Skills (3.0)
- PSY 3710 Introduction to Forensic Psychology (3.0)
- PSY 4300 Introduction to Counseling and Psychotherapy (3.0)
- PSY 4400 Introduction to Group Psychotherapy (3.0)
- SUDC 4400 Advanced Substance Use Disorder Counseling (3.0)
- SW 3850 Autism Assessment and Treatment (3.0)

**Interpersonal Relations Requirement - Complete two of the following courses:** 6

- PSY 2250 Psychology of Interpersonal Relationships (3.0)
- PSY 2800 Human Sexuality (3.0)
- SW 2500 Understanding the Autism Spectrum (3.0)
- BESC 3410 Fundamentals of Mediation and Negotiation (3.0)
- BESC 3420 Communication and Conflict (3.0)
- BESC 4200 Advanced Mediation and Conflict (3.0)
- FAMS 3250 Applied Parenting (3.0)
- PSY 3510 Psychology Applied to Modern Life (3.0)
- SUDC 4300 Introduction to Substance Use Disorder Counseling (3.0)

**Cognitive Neuroscience Requirement - Complete two of the following courses:** 6

- PSY 3420 Cognitive Psychology (3.0)
- PSY 3430 Psychopharmacology (3.0)*
- SUDC 3430 Psychopharmacology for the Substance Use Disorder Counseling Field (3.0)
- PSY 3450 Physiological Psychology (3.0)*
- PSY 3490 Sensation and Perception (4.0)

**General Psychology Requirement - Complete one of the following courses:** 3

- PSY 2400 Introduction to Substance Use Disorder Counseling (3.0)
- PSY 3480 Principles of Learning (3.0)
- PSY 4500 History and Systems of Psychology (3.0)
- PSY 475R Current Topics in Psychology (1.0)
- SW 4650 Autism and Applied Behavior Analysis (3.0)
- SUDC 4720 Advanced Professional Development (3.0)

**Emphasis Elective Requirements:** 9 Credits

Utah Valley University
Behavioral Science Elective Requirement (3 courses / 9 credits)
- In addition to the requirements listed above, students must complete 9 credits of approved Behavioral Science electives. These courses must come from ANTH/SW/BESC/FAMS/PSY/SOC/PSW and they can be 1000 level or higher. Students planning on taking PSY 3430 and/or PSY 3450 should take PSY 2710 to count towards part of this requirement. Please see your Behavioral Science advisor for a list of approved courses.

<table>
<thead>
<tr>
<th>Graduation Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.</td>
</tr>
<tr>
<td>2. Minimum overall UVU GPA of 2.0 upon graduation.</td>
</tr>
<tr>
<td>3. Minimum 2.5 program GPA upon graduation.</td>
</tr>
<tr>
<td>4. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.</td>
</tr>
<tr>
<td>5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.</td>
</tr>
<tr>
<td>6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, 202G/2020 levels or transferred equivalents.</td>
</tr>
<tr>
<td>7. Successful completion of at least one Global/Intercultural course.</td>
</tr>
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</table>

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote
* Completion of PSY 2710 or ZOOL 2320 and ZOOL 2420 is a prerequisite for PSY 3430 and PSY 3450, no exceptions to this requirement will be made.

** Recommended if student is considering an MSW program.

Behavioral Science - Psychology Emphasis, B.A.

Careers:
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers
• Managers, All Other
• Clinical, Counseling, and School Psychologists
• Industrial-Organizational Psychologists
• Psychologists, All Other
• Psychology Teachers, Postsecondary

Behavioral Science - Psychology Emphasis, B.S.

Requirements
The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).
BESC 4050  Clinical Research (3.0)
BESC 4040  Applied Behavioral Science Research (3.0)
PSY 4010  Experimental Psychology (3.0)
PSY 4150  Tests and Measurements (3.0)
SOC 4020  Survey Research Design (3.0)

Social and Diversity Requirement  6
Complete the following course:

PSY 3500  Social Psychology (3.0)

Complete one of the following courses:

ANTH 3700  Psychological Anthropology (3.0)
PSY 3100  Psychology of Gender (3.0)
PSY 3850  Psychology of Good and Evil (3.0)
PSY 4461  Moral Psychology (3.0)
SOC 3520  Environmental Sociology (3.0)

Development Requirement  6
Complete one of the following course:

PSY 3200  Infancy and Childhood Development (3.0)
SW 3810  Autism Across the Lifespan I Infants and Children (3.0)

Complete one of the following courses:

BESC 3550  Thanatology—Death and Dying (3.0)
PSY 3210  Adolescent Development (3.0)
PSY 3220  Adult Development (3.0)
SW 3820  Autism across the Lifespan II Teens and Adults (3.0)

Personality and Clinical Requirement  9
Complete the following two courses:

PSY 3400  Abnormal Psychology (3.0)
PSY 3460  Personality Theory (3.0)

Complete one of the following course:

BESC 380G  Interviewing Skills (3.0)
PSY 3710  Introduction to Forensic Psychology (3.0)
PSY 4300  Introduction to Counseling and Psychotherapy (3.0)
PSY 4400  Introduction to Group Psychotherapy (3.0)
SUDC 4400  Advanced Substance Use Disorder Counseling (3.0)
SW 3850  Autism Assessment and Treatment (3.0)

Interpersonal Relations Requirement - Complete two of the following courses:  6

PSY 2250  Psychology of Interpersonal Relationships (3.0)
or
PSY 2800  Human Sexuality (3.0)
or
SW 2500  Understanding the Autism Spectrum (3.0)
BESC 3410  Fundamentals of Mediation and Negotiation (3.0)
BESC 3420  Communication and Conflict (3.0)
BESC 4200  Advanced Mediation and Negotiation (3.0)
FAMS 3250  Applied Parenting (3.0)
PSY 3510  Psychology Applied to Modern Life (3.0)
SUDC 4300  Introduction to Substance Use Disorder Counseling (3.0)

Cognitive Neuroscience Requirement - Complete two of the following courses:  6

PSY 3420  Cognitive Psychology (3.0)
PSY 3430  Psychopharmacology (3.0)*
or
SUDC 3430  Psychopharmacology for the Substance Use Disorder Counseling Field (3.0)
PSY 3450  Physiological Psychology (3.0)*
PSY 3490  Sensation and Perception (4.0)

General Psychology Requirement - Complete one of the following courses:  3

PSY 2400  Positive Psychology (3.0)
PSY 3480  Principles of Learning (3.0)
PSY 4500  History and Systems of Psychology (3.0)
PSY 475R  Current Topics in Psychology (1.0)
SW 4650  Autism and Applied Behavior Analysis (3.0)
SUDC 4720  Advanced Professional Development (3.0)

Emphasis Elective Requirements:  9

Behavioral Science Elective Requirement (3 courses / 9 credits)
- In addition to the requirements listed above, students must complete 9 credits of approved Behavioral Science electives. These courses must come from ANTH/BESC/FAMS/PSY/SOC/SW and they can be 1000 level or higher. Students planning on taking PSY 3430 and/or PSY 3450 should take PSY 2710 to count towards part of this requirement. Please see your Behavioral Science advisor for a list of approved courses.

Graduation Requirements:
1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote
* Completion of PSY 2710 or ZOOL 2320 and ZOOL 2420 is a prerequisite for PSY 3430 and PSY 3450, no exceptions to this requirement will be made.
** Recommended if student is considering an MSW program.

Behavioral Science - Psychology Emphasis, B.S.

Careers:
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources,
Behavioral Science

management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

• Managers, All Other
• Clinical, Counseling, and School Psychologists
• Industrial-Organizational Psychologists
• Psychologists, All Other
• Psychology Teachers, Postsecondary

Behavioral Science - Sociology Emphasis, B.A.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Program Credits: 120

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing–Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing–Science and Technology (3.0) (recommended)</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0) (recommended)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
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Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)**</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life (2.0)</td>
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</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical Science</td>
<td></td>
<td>3</td>
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<td>Additional Biology or Physical Science</td>
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<td>Humanities Distribution</td>
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<td>3</td>
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<tr>
<td></td>
<td>Fine Arts Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSY 1010</td>
<td>General Psychology (Social/Behavioral Science)</td>
<td>3</td>
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</table>

Discipline Core Requirements: 19 Credits

Complete the following seven courses: 19

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101G</td>
<td>Social/Cultural Anthropology (3.0)</td>
<td></td>
</tr>
<tr>
<td>PSY 1010</td>
<td>General Psychology (3.0) (completed with GE requirements)</td>
<td></td>
</tr>
<tr>
<td>SOC 1010</td>
<td>Introduction to Sociology (3.0)</td>
<td></td>
</tr>
<tr>
<td>FAMS 101G</td>
<td>Contemporary Families (3.0)</td>
<td></td>
</tr>
<tr>
<td>SW 1010</td>
<td>Introduction to Social Work (3.0)</td>
<td></td>
</tr>
<tr>
<td>BESC 3010</td>
<td>Statistics for the Behavioral Sciences (4.0)</td>
<td></td>
</tr>
<tr>
<td>BESC 3020</td>
<td>Research Methods for the Behavioral Sciences (3.0)</td>
<td></td>
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</tbody>
</table>

Elective Requirements: 18 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Language Requirement (16 credits in the same foreign language, includes ASL)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Any course numbered 1000 or higher</td>
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Emphasis Requirements: 27 Credits

Lower Division Sociology Requirement - Complete two of the following courses: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 1020</td>
<td>Modern Social Problems (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 2370</td>
<td>Gender Roles (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 275R</td>
<td>Survey of Current Topics (1.0)</td>
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</tr>
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</table>

Sociology Theory Requirement - Complete the following two courses: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 3000</td>
<td>Contemporary Social Theory</td>
<td></td>
</tr>
<tr>
<td>SOC 3310</td>
<td>Classical Social Theory</td>
<td></td>
</tr>
</tbody>
</table>

Upper Division Sociology Requirement - Complete four of the following courses: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 320G</td>
<td>Race and Minority Relations (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 3400</td>
<td>Sociology of Religion (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 3430</td>
<td>Sociology of Education (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 3520</td>
<td>Environmental Sociology (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 3460</td>
<td>Political Sociology (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 3510</td>
<td>Sociology of Work and Occupations (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 3560</td>
<td>Sociology of Deviance (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 3700</td>
<td>Social Inequality (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 4400</td>
<td>Social Change (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 475R</td>
<td>Current Topics in Sociology (1.0)</td>
<td></td>
</tr>
</tbody>
</table>

Advanced Research Requirement - Complete one of the following courses: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 4020</td>
<td>Survey Research Design (3.0)</td>
<td></td>
</tr>
<tr>
<td>BESC 4040</td>
<td>Applied Behavioral Science Research (3.0)</td>
<td></td>
</tr>
<tr>
<td>ANTH 3850</td>
<td>Ethnographic Methods (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Emphasis Elective Requirements: 21 Credits

Behavioral Science Electives (7 courses / 21 credits). In addition to the requirements listed above, students must complete 21 credits of approved Behavioral Science electives, 12 credits must be upper-division and they must come from ANTH/BESC/FAMS/PSY/SOC/SW. Please see a Behavioral Science advisor for a list of approved courses.

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum overall UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, 202G/2020 levels or transferred equivalents.
7. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote
** Recommended if student is considering an MSW program.

Behavioral Science - Sociology Emphasis, B.A.

Careers:
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers
• Managers, All Other
• Clinical, Counseling, and School Psychologists
• Industrial-Organizational Psychologists
• Psychologists, All Other
• Psychology Teachers, Postsecondary

Behavioral Science - Sociology Emphasis, B.S.

Requirements
The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC). Total Credits: 123

General Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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<td>Intermediate Writing--Humanities/Social Sciences</td>
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</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0) (recommended)</td>
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</tr>
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</table>

Complete one of the following:

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
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<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0) (recommended)</td>
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</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
<td></td>
</tr>
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</table>

Complete one of the following:

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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 123

HIST 1700 American Civilization (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)**

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
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</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
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<td>Physical Science</td>
<td></td>
<td>3</td>
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<tr>
<td>Additional Biology or Physical Science</td>
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<td>3</td>
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<tr>
<td>Humanities Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PSY 1010 General Psychology (Social/Behavioral Science)</td>
<td>3</td>
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</table>

Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101G Social/Cultural Anthropology (3.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY 1010 General Psychology (3.0) (completed with GE requirements)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC 1010 Introduction to Sociology (3.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FAMS 101G Contemporary Families (3.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SW 1010 Introduction to Social Work (3.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BESC 3010 Statistics for the Behavioral Sciences (4.0)</td>
<td></td>
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<tr>
<td>BESC 3020 Research Methods for the Behavioral Sciences (3.0)</td>
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Elective Requirements:

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>General Elective Requirement (18 elective credits from any courses 1000 level or higher)</td>
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Emphasis Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Division Sociology Requirement - Complete two of the following courses:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SOC 1020 Modern Social Problems (3.0)</td>
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<tr>
<td>SOC 2370 Gender Roles (3.0)</td>
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<tr>
<td>SOC 275R Survey of Current Topics (1.0)</td>
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Sociology Theory Requirement - Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SOC 3000 Contemporary Social Theory</td>
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<tr>
<td>SOC 3310 Classical Social Theory</td>
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</table>

Upper Division Sociology Requirement - Complete four of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 320G Race and Minority Relations (3.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC 3400 Sociology of Religion (3.0)</td>
<td></td>
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</tr>
<tr>
<td>SOC 3430 Sociology of Education (3.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC 3520 Environmental Sociology (3.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC 3460 Political Sociology (3.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC 3510 Sociology of Work and Occupations (3.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC 3560 Sociology of Deviance (3.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC 3700 Social Inequality (3.0)</td>
<td></td>
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</tbody>
</table>
Behavioral Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>SOC 4400</td>
<td>Social Change (3.0)</td>
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<tr>
<td>SOC 475R</td>
<td>Current Topics in Sociology (1.0)</td>
</tr>
<tr>
<td>SOC 4020</td>
<td>Survey Research Design (3.0)</td>
</tr>
<tr>
<td>BESC 4040</td>
<td>Applied Behavioral Science Research (3.0)</td>
</tr>
<tr>
<td>ANTH 3850</td>
<td>Ethnographic Methods (3.0)</td>
</tr>
</tbody>
</table>

Advanced Research Requirement - Complete one of the following courses:

1. Behavioral Science electives (7 courses / 21 credits). In addition to the requirements listed above, students must complete 21 credits of approved Behavioral Science electives. 12 credits must be upper-division and they can come from ANTH/BESC/FAMS/PSY/SOC/SW. Please see a Behavioral Science advisor for a list of approved courses.

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ grade or higher.

Total Program Credits: 120

Matriculation Requirements:

Admission to the BSW program includes the following requirements:

1. Completion of all general education courses.
2. Completion of SW 1010 with a B- grade or higher.
3. Completion of ENGL 1010 and ENGL 2010 or 2020 with a C+ grade or higher.
4. Overall GPA of 2.5 or higher.
5. Approval of the Social Work Admissions Committee.

General Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing–Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing–Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>PES 1097</td>
<td>Fitness for Life (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PSY 1010</td>
<td>General Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 64 Credits

Social Work Core - Complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BESC 3010</td>
<td>Statistics for the Behavioral Sciences</td>
<td>4</td>
</tr>
<tr>
<td>BESC 3020</td>
<td>Research Methods for the Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>BESC 380G</td>
<td>Interviewing Skills</td>
<td>3</td>
</tr>
<tr>
<td>SW 1010</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SW 2100</td>
<td>Human Behavior and the Social Environment I *</td>
<td>3</td>
</tr>
<tr>
<td>SW 3000</td>
<td>Social Work Practice I *</td>
<td>3</td>
</tr>
<tr>
<td>SW 3100</td>
<td>Social Work Practice II *</td>
<td>3</td>
</tr>
<tr>
<td>SW 3200</td>
<td>Social Work Practice III *</td>
<td>3</td>
</tr>
<tr>
<td>SW 3400</td>
<td>Human Behavior and the Social Environment II *</td>
<td>3</td>
</tr>
<tr>
<td>SW 3500</td>
<td>Social Welfare Policies and Services *</td>
<td>3</td>
</tr>
<tr>
<td>SW 3600</td>
<td>Ethics and Values in Social Work Practice *</td>
<td>3</td>
</tr>
<tr>
<td>SW 371G</td>
<td>Diversity Issues in Social Work Practice *</td>
<td>3</td>
</tr>
</tbody>
</table>

Social Work, B.S.W.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).
## Behavioral Science

### Course Catalog 2015-2016

**Utah Valley University**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 4800</td>
<td>Integrated Seminar I *</td>
<td>1</td>
</tr>
<tr>
<td>SW 481R</td>
<td>Field Placement * (1.0)</td>
<td>5</td>
</tr>
<tr>
<td>SW 481R</td>
<td>Field Placement * (1.0)</td>
<td>5</td>
</tr>
<tr>
<td>SW 4850</td>
<td>Integrated Seminar II *</td>
<td>1</td>
</tr>
</tbody>
</table>

**Social Work Electives - Complete 15 credits of approved social work electives.** Choose from the following courses:

- **BESC 3410** Fundamentals of Mediation and Negotiation (3.0)
- **BESC 3100** Career and Graduate School Preparation for Behavioral Science Majors (3.0)
- **BESC 4050** Clinical Research (3.0)
- **SOC 4020** Survey Research Design (3.0)
- **PSY 3400** Abnormal Psychology (3.0)
- **SW 3510** International Social Work (3.0)
- **SW 3750** Child Abuse/Neglect and Domestic Violence (3.0)
- **SW 4500** Crisis Intervention (3.0)
- **SW 4700** Case Management in Social Work Practice (3.0)
- **SW 475R** Current Topics in Social Work (3.0)
- **SW 490R** Independent Studies (1.0)

**Elective Requirements:**

**21 Credits**

- Complete 21 additional credits of any courses 1000 to 4000 level.

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits, 40 of which must be upper division.
2. Overall grade point average of 2.5 or above.
3. Residency hours – minimum of 30 credit hours through course attendance at UVU, with at least 10 credit hours earned in the last 45 credit hours.
4. All 48 credits of the BSW Social Work core requirements must be completed with a grade of B- or higher.
5. All 12 credits of Social Work electives must be completed with a C- grade or higher.
6. Successful completion of at least one Global/Intercultural course.

**Note:** Please see department advisor to make an academic plan and for an explanation of all admission and program requirements.

**Footnote**

* Students must be formally admitted into the BSW program before they can register for this course.

---

### Social Work, B.S.W.

**Careers**

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

**Related Careers**

- Mental Health and Substance Abuse Social Workers
- Social Workers, All Other
- Probation Officers and Correctional Treatment Specialists
- Social Work Teachers, Postsecondary
Mission Statement

The mission of the Department of Biology is two-fold: first, we are committed to educate students in the principle tenets of biology through structured inquiry and opportunities for individualized experiential learning. Second, we are committed to teaching ethical behavior in experimental design and practice to all of our students. The department strives to provide the best educational opportunities possible for students to attain their academic goals and to facilitate faculty in scholarship in an atmosphere that encourages free exchange of ideas.

Our Philosophy and Values

The Department of Biology believes that students and faculty have a shared responsibility to obtain knowledge. Faculty should maintain their expertise by ongoing investigation, presentation, and pursuit of scholarly activities. In addition to the pursuit of scholarly information in biology, students should develop skills in communication, analysis, and critical thinking relevant to biology and other disciplines.

Goals

The Department of Biology recognizes excellent student education as its first priority. In addition to formal programs of study, we offer opportunities for research, service, field and laboratory activities, and secondary education training.

The UVU Biology program offers a variety of courses that investigate the living world, including courses in biology, botany, ecology, genetics, human physiology, microbiology, and zoology. A course of study may be designed to provide breadth in the life sciences or emphasize field or laboratory oriented biology.

Biology

Advisors:

- **Biology**: Terrell Wyche
  - **Office**: PS 201
  - **Telephone**: 801-863-6208
  - **Email**: TWyche@uvu.edu

- **Biology**: Heidi Creer
  - **Office**: PS 201
  - **Telephone**: 801-863-5259
  - **Email**: Heidi.Creer@uvu.edu

- **Biotechnology**: Thayne Dickey
  - **Office**: PS 201
  - **Telephone**: 801-863-6791
  - **Email**: DICKEYTH@uvu.edu

- **Secondary Education**: Richard Tolman
  - **Office**: SB 242f
  - **Telephone**: 801-863-6229
  - **Email**: tolmanri@uvu.edu

Career Opportunities

Majors in Biology prepare for a wide variety of occupations in education, government, medicine, and research. Students majoring in a UVU Bachelor’s program should meet with the Biology Department advisor early in their program.

Job Outlook

Graduates with degrees in Biology are especially in demand in the secondary education, health, natural resource management, and biotechnology areas.

Programs

Eight degree options are available: Associate in Science Degree or Associate in Arts with a pre-major in Biology; Bachelor of Science Degree in Integrated Studies (IS) with a Biology emphasis, Bachelor of Science Degree in Biology, Bachelor of Science Degree in Biotechnology, Bachelor of Science in Biology Education, and Bachelor of Science Degree in Botany. A minor in biology is available for those in other baccalaureate programs.

All AS/AA and BS Biology, Botany, and IS majors must consult with the Biology Department advisor prior to their first semester of enrollment at UVU to formulate a plan of study. BS in Biotechnology majors consult with the Biotechnology advisor. BS in Biology Education majors consult with Biology Secondary Education advisor. BS in Integrated Studies must also consult with the Integrated Studies advisor. Those interested in Regulatory Affairs need to speak with the Regulatory Affairs Program Director.

Students interested in a career in biology or related field are encouraged to earn at least a baccalaureate degree (BS). Many professions (e.g., pharmacy, medicine) require additional post-baccalaureate education. The UVU AS/AA degree is intended for students who plan to use it as a first step toward a baccalaureate degree. The AS/AA degree may be granted to those who do not continue in a bachelor’s program and meet the minimum requirements. The Departmental Bachelor of Science Degrees may be used for entry into a career or in preparation for post-baccalaureate (for masters and doctoral degrees) or professional (e.g., medical, dental) education. A Bachelor of Science Degree in Integrated Studies, Biology emphasis is available. Please see Biology advisors for more information.
Course Descriptions

Biology ............................................................................................................... 546
Botany ................................................................................................................ 550
Biotechnology ......................................................................................................552
Microbiology ........................................................................................................685
Zoology ...............................................................................................................742

Degrees & Programs

Biology, A.A.

Requirements

Students interested in biology, or related fields, are encouraged to earn at least a baccalaureate degree (BS). Many professions (e.g., Pharmacy or Medicine) require additional post-baccalaureate education. The AS/AA degree is intended for students who plan to use it as a first step toward a baccalaureate degree. The AS/AA degree may be granted to those who do not continue in a bachelor's program and meet the minimum requirements.

Total Program Credits: 60

Complete one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1610</td>
<td>College Biology I (To be taken with BIOL 1615)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1210</td>
<td>Principles of Chemistry I (To be taken with CHEM 1215)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1220</td>
<td>Principles of Chemistry II (To be taken with CHEM 1225)</td>
<td>4</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 13 Credits

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1615</td>
<td>College Biology I Laboratory (To be taken with BIOL 1610)</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1620</td>
<td>College Biology II</td>
<td>3</td>
</tr>
<tr>
<td>and BIOL 1625</td>
<td>College Biology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1215</td>
<td>Principles of Chemistry I Laboratory (To be taken with CHEM 1210)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1225</td>
<td>Principles of Chemistry II Laboratory (To be taken with CHEM 1220)</td>
<td>1</td>
</tr>
<tr>
<td>Minimum of 2 additional biology courses (BIOL, BOT, MICR, or ZOOL prefixes). BIOL 1010 and BIOL 1050 cannot be used to meet this requirement. See Biology Advisor.</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Elective Requirements: 8 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same Foreign Language.</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

Biology, A.A.

Careers

This degree should be used in preparation for the BS in Biology.

Related Careers

- Natural Sciences Managers
Biology

- Biological Scientists, All Other
- Life Scientists, All Other
- Biological Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Biology, A.S.

Requirements

Students interested in biology, or related fields, are encouraged to earn at least a baccalaureate degree (BS). Many professions (e.g., Pharmacy or Medicine) require additional post-baccalaureate education. The AS/AA degree is intended for students who plan to use it as a first step toward a baccalaureate degree. The AS/AA degree may be granted to those who do not continue in a bachelor's program and meet the minimum requirements.

Total Program Credits: 60

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>39 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Civilization (3.0)
- POLS 1100 American National Government (3.0)

Complete the following: 3

- PHIL 2050 Ethics and Values
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life

Distribution Courses:

- BIOL 1610 College Biology I (To be taken with BIOL 1615) 4
- CHEM 1210 Principles of Chemistry I (To be taken with CHEM 1215) 4
- CHEM 1220 Principles of Chemistry II (To be taken with CHEM 1225) 4

Humanities Distribution 3

Fine Arts Distribution 3

Social/Behavioral Science 3

Discipline Core Requirements: 15 Credits

Complete the following:

- BIOL 1615 College Biology I Laboratory (To be taken with BIOL 1610) 1
- BIOL 1620 College Biology II 3
- and BIOL 1625 College Biology II Laboratory 1
- CHEM 1215 Principles of Chemistry I Laboratory (To be taken with CHEM 1210) 1
- CHEM 1225 Principles of Chemistry II Laboratory (To be taken with CHEM 1220) 1

Minimum of 3 additional biology courses (BIOL, BOT, MICR, or ZOOL prefixes). BIOL 1010 and BIOL 1050 cannot be used to meet this requirement. See Biology Advisor.

Elective Requirements: 6 Credits

Complete any course 1000 or higher. See Biology Advisor.

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements.

Biology, A.S.

Careers

Careers:

This degree should be used in preparation for the BS in Biology.

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Life Scientists, All Other
- Biological Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Biology, Minor

Requirements

The minor is a way for students to investigate the Biology Degree.

Total Program Credits: 21

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Admitted to a bachelor degree program at UVU.</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 21 Credits

Complete the following with a grade of C- or better:

- BIOL 1610 College Biology I 4
- BIOL 1615 College Biology I Laboratory 1
- BIOL 1620 College Biology II 3
- BIOL 1625 College Biology II Laboratory 1

Complete 12 upper-division credits from any BIOL, BOT, MICR, or ZOOL courses with a grade of C- or higher in each. BIOL 495R, BIOL 499R, BIOL 498R, BIOL 499R, ZOOL 3080, or ZOOL 4080 cannot be used to meet this requirement. 12

Biology, Minor

Careers

Careers:

N/A

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Life Scientists, All Other
- Biological Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education
Biology Education, B.S.

Requirements

Biology is the study of living organisms and includes study of subjects such as evolution, ecology, zoology, physiology, anatomy, and botany among other subjects. Completion of this degree will prepare students to teach classes in high school biology, and related subjects, plus integrated science at the 7th grade level.

Total Program Credits: 125.5

Matriculation Requirements:

Admission to Professional Education status is a requirement for enrollment in professional studies level courses. Admission criteria includes:

1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read/Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass LiveScan Criminal Background Check.

General Education Requirements: 39 Credits

ENGL 1010 Introduction to Writing 3
ENGL 2020 Intermediate Writing—Science and Technology 3
MATH 1050 College Algebra 4

Complete one of the following: 3

HIST 2700 US History to 1877 (3.0)
and HIST 2710 US History since 1877 (3.0)
HIST 1700 American Civilization (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)

Complete the following:

PHIL 2050 Ethics and Values 3
HLTH 1100 Personal Health and Wellness (2.0)
or PES 1097 Fitness for Life 2

Distribution Courses

Biol 1610 College Biology I 4
CHEM 1110 Elementary Chemistry for the Health Sciences 4
CHEM 1120 Elementary Organic Bio-Chemistry 4

Humanities Distribution 3
Fine Arts Distribution 3

HIST 4320 History of Scientific Thought (Social/Behavioral Science) 3

Discipline Core Requirements: 86.5 Credits

BIOL 1615 College Biology I Laboratory 1
BIOL 1620 College Biology II 3
BIOL 1625 College Biology II Laboratory 1
MICR 2060 Microbiology for Health Professions 3
and MICR 2065 Microbiology for Health Professions Laboratory 1
or MICR 3450 General Microbiology (3.0)
and MICR 3455 General Microbiology Laboratory (1.0)

or BIOL 3500 Genetics 3
BIOL 3505 Genetics Tutorial 0.5
BIOL 3700 General Ecology 3
BIOL 4200 Teaching Methods in Science 3
BIOL 4500 Principles of Evolution 3
BIOL 494R Student Seminar 1

or BOT 2050 Field Botany 3
or BOT 2100 Flora of Utah (3.0)
or BOT 4300 Native Trees and Shrubs of Utah (3.0)

or ZOOL 3230 Human Anatomy 3
ZOOL 3235 Human Anatomy Laboratory 1
ZOOL 2420 Human Physiology 3
ZOOL 2425 Human Physiology Laboratory 1
ZOOL 3100 Vertebrate Zoology 3
ZOOL 3105 Vertebrate Zoology Laboratory 1
ZOOL 3200 Invertebrate Zoology 4
CHEM 1115 Elementary Chemistry Laboratory 1
CHEM 1125 Elementary Organic Bio-Chemistry Laboratory 1

Education Courses

EDSC 3000 Educational Psychology 3
EDSC 3050 Foundations of American Education 2
EDSC 3250 Instructional Media 2
EDSC 4200 Classroom Management I 2
EDSC 4250 Classroom Management II 2
EDSC 4440 Content Area Literacies 3
EDSC 445G Multicultural Instruction ESL 3
EDSC 4550 Secondary Curriculum Instruction and Assessment 3
EDSC 4850 Student Teaching—Secondary 10
EDSP 3400 Exceptional Students 2
GEO 1010 Introduction to Geology 3
GEO 1015 Introduction to Geology Laboratory 1
PHYS 1010 Elementary Physics 3

Graduation Requirements:

1. Complete the required minimum credit hours.
2. If an AA or AS degree has been earned, a maximum of 64 of these credits may apply toward the BS.
3. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
4. A minimum of 40 credits must be upper-division (numbered 3000 or above).
5. A minimum of 30 credits must be in the major (BIOL, BOT, MICR, or ZOOL prefixes), courses as follows: minimum of 9 Biology credits must be taken at UVU and a minimum of 20 Biology credits must be upper-division.
6. Complete the appropriate application for graduation form.
7. Successful completion of at least one Global/Intercultural course.
8. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.

Utah Valley University
Biology

Biology Education, B.S.

**Careers**

<table>
<thead>
<tr>
<th>Careers:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary Education Teacher Grade 7th-12th.</td>
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</table>

**Related Careers**

- Biological Science Teachers, Postsecondary
- Education Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

**Biology, B.S.**

**Requirements**

Students interested in Biology, or related fields, are encouraged to earn at least a baccalaureate degree (BS). Many professions (e.g., Pharmacy or Medicine) require additional post-baccalaureate education. The BS degree in Biology may be used for entry into a career or in preparation for graduate (Masters/PhD) or professional schools (medical, dental, pharmacy, etc.).

**Total Program Credits: 121.5**

**Matriculation Requirements:**

- BIOL 1610 with C- or higher and approval of Biology Department advisor.

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
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**Complete one of the following:**

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<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>HIST 2710</td>
<td>3</td>
</tr>
<tr>
<td>and</td>
<td>US History since 1877</td>
<td>3</td>
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**HIST 1700** American Civilization (3.0)

**HIST 1740** US Economic History (3.0)

**POLS 1000** American Heritage (3.0)

**POLS 1100** American National Government (3.0)

**Complete the following:**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td>2</td>
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<tr>
<td>or</td>
<td>PES 1097</td>
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<tr>
<td>Distribution Courses:</td>
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<td></td>
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<tr>
<td>BIOL 1610</td>
<td>College Biology I</td>
<td>4</td>
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<tr>
<td>CHEM 1210</td>
<td>Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1220</td>
<td>Principles of Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
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**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 1615</td>
<td>College Biology I Laboratory</td>
<td>1</td>
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<tr>
<td>BIOL 1620</td>
<td>College Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1625</td>
<td>College Biology II Laboratory</td>
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<tr>
<td>BIOL 3400</td>
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<tr>
<td>BIOL 3500</td>
<td>Genetics</td>
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**Total Program Credits:**

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<tr>
<td>BIOL 3505</td>
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<td>General Ecology</td>
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<td>BIOL 494R</td>
<td>Student Seminar</td>
<td>1</td>
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<tr>
<td>BIOL 497R</td>
<td>Biology Colloquium (0.5 cr, two required) (0.5)</td>
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<tr>
<td>MATH 2040</td>
<td>Principles of Statistics</td>
<td>4</td>
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<tr>
<td>or</td>
<td>MATH 1060</td>
<td>3</td>
</tr>
<tr>
<td>and</td>
<td>Trigonometry (3.0)</td>
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<tr>
<td>PHYS 2010</td>
<td>College Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2015</td>
<td>College Physics I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 2020</td>
<td>College Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2025</td>
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</tr>
<tr>
<td>CHEM 1215</td>
<td>Principles of Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1225</td>
<td>Principles of Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 2310</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2315</td>
<td>Organic Chemistry I Laboratory</td>
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</tr>
<tr>
<td>CHEM 2320</td>
<td>Organic Chemistry II</td>
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<tr>
<td>CHEM 2325</td>
<td>Organic Chemistry II Laboratory</td>
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**Elective Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose 4 credits from any MICR electives.</td>
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<td></td>
</tr>
<tr>
<td>Choose 3 credits from any BOT electives.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Choose 3 credits from any ZOOL electives (except ZOOL 1090).</td>
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<td></td>
</tr>
<tr>
<td>Additional credits to meet credit and upper-division requirements.</td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

**Graduation Requirements:**

1. Complete the required minimum credit hours.
2. If an AA or AS degree has been earned, a maximum of 64 of these credits may apply toward the BS.
3. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
4. A minimum of 40 credits must be upper-division (numbered 3000 or above). A minimum of nine Department credits must be taken at UVU.
5. Except for 490R Special Topics courses, a maximum cumulative total of 9 credits in any combination of upper division Departmental courses with an "R" designation may count toward graduation.
6. Complete Biology Department core courses with a grade of "C" or higher in each course.
7. Achieve a minimum overall GPA of 2.0 with a minimum GPA of 2.25 in biology department courses.
8. Complete the appropriate application for graduation form.
9. Successful completion of at least one Global/Intercultural course.

**Biology, B.S.**

**Careers**

The multiple career opportunities available for graduates with a degree in Biology make it a highly versatile degree. In addition to standard career options, such as working in the fields of healthcare, biotechnology, agriculture, education, and environmental science, biology graduates find employment in fields as diverse as art (scientific illustrator), public relations (for science museums, etc.), governmental agencies (wild land restoration, etc.), and non-profit organizations (wildlife agencies (wild land restoration, etc.), and non-profit organizations (wildlife

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1615</td>
<td>College Biology I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1620</td>
<td>College Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1625</td>
<td>College Biology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 3400</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3500</td>
<td>Genetics</td>
<td>3</td>
</tr>
</tbody>
</table>
conservation, etc.). With additional education, majors can go onto careers in law (medical/biotechnology patent attorney, forensic scientist), business (healthcare and agricultural industry management), engineering (biomedical device development), and even aerospace (a number of NASA astronauts have been biomedical researchers). A degree in Biology can provide for career opportunities as limitless and evolving as life itself.

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Life Scientists, All Other
- Biological Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Biotechnology, B.S.

Requirements

The Bachelor's Degree in Biotechnology will prepare students to enter the field of research, education, pharmaceuticals, forensics, and a variety of other careers. It is also great preparation for advanced degrees in the sciences.

Total Program Credits: 121.5

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>39 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740 US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000 American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100 American National Government (3.0)</td>
<td></td>
</tr>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life</td>
<td>2</td>
</tr>
<tr>
<td>Distribution Courses:</td>
<td></td>
</tr>
<tr>
<td>BIOL 1610 College Biology I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1210 Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1220 Principles of Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>Discipline Core Requirements:</td>
<td>72.5 Credits</td>
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<tr>
<td>BIOL 1615 College Biology I Laboratory</td>
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<td>BIOL 3400 Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3500 Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3505 Genetics Tutorial</td>
<td>0.5</td>
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<tr>
<td>BIOL 3515 Advanced Genetics Laboratory</td>
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<tr>
<td>BIOL 3550 Molecular Biology</td>
<td>3</td>
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<td>BIOL 3600 Biological Chemistry</td>
<td>3</td>
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<tr>
<td>BIOL 3605 Biochemistry Laboratory</td>
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</table>

Elective Requirements: 10 Credits

- Additional credits to meet credit and upper-division requirements.

Graduation Requirements:

1. Complete the required minimum credit hours.
2. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
3. A minimum of 40 credits must be upper-division (numbered 3000 or above)
4. Complete core courses with a grade of "C-" or higher in each course.
5. Achieve a minimum overall GPA of 2.0 with a minimum GPA of 2.25 in core requirements.
6. Successful completion of at least one Global/Intercultural course.

Biotechnology, B.S.

Careers

Careers:

Graduates with a Bachelor Degree in Biotechnology can pursue a variety of careers and positions both in Utah and the nation. Companies that make up the life science industry are varied and include, but are not limited to, Biotechnology, Pharmaceutical, Medical Diagnostics, Forensics, Molecular/Cell/Microbiology, Biochemistry, Secondary Education, Natural Products, and Agricultural Sciences.

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Biological Science Teachers, Postsecondary
Botany, B.S.

Requirements

Students interested in botany, or related fields, are strongly encouraged to earn at least a baccalaureate degree (BS). To be competitive in the job market additional post-baccalaureate education is suggested. The BS degree in Botany may be used for entry into a career or in preparation for graduate (Masters/PhD) or professional schools (medical, pharmacy etc.).

Total Program Credits: 120.5

Matriculation Requirements:
1. BIOL 1610 with C- or higher and approval of Biology Department adviser.

General Education Requirements: 39 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
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</table>

Complete one of the following: 3 Credits

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
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<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
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<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
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Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
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<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
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Distribution Courses:

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<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 1610</td>
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<tr>
<td>CHEM 1210</td>
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<td>CHEM 1220</td>
<td>Principles of Chemistry II</td>
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<td>Fine Arts Distribution</td>
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<tr>
<td>Social/Behavioral Science</td>
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Discipline Core Requirements: 58.5 Credits

<table>
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<tbody>
<tr>
<td>BIOL 1615</td>
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<td>College Biology II Laboratory</td>
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<tr>
<td>BIOL 3400</td>
<td>Cell Biology</td>
<td>3</td>
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<tr>
<td>BIOL 3500</td>
<td>Genetics</td>
<td>3</td>
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<tr>
<td>or</td>
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Elective Requirements: 23 Credits

Complete the following:

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<td>BOT 4600</td>
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<td>and</td>
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<tr>
<td>and</td>
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<tr>
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<td>4</td>
</tr>
<tr>
<td>PHYS 2015</td>
<td>College Physics I Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Complete the required minimum credit hours.
2. Completion of GE and specified departmental requirements.
3. If an AA or AS degree has been earned, a maximum of 64 of these credits may apply toward the BS.
4. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
5. A minimum of 40 credits must be upper-division (numbered 3000 or above).
6. A minimum of 40 credits must be in the Biology Department (BIOL, BOT, BTEC, MICR, or ZOOL prefixes), 30 of which must be upper-division. A minimum of nine Biology Department credits must be taken at UVU.
7. Complete discipline core courses with a grade of "C-" or higher in each course.
8. Achieve a minimum overall GPA of 2.0 with a minimum GPA of 2.25 in Biology Department courses.
9. Complete the appropriate application for graduation form.
10. Successful completion of at least one Global/Intercultural course.

Botany, B.S.

Careers

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Biological Science Teachers, Postsecondary
Biology Graduate Studies

College of Science & Health

- Dean: Daniel Fairbanks
- Office: SB 241
- Telephone: 801-863-6441
- Email: daniel.fairbanks@uvu.edu

Graduate Certificate in Regulatory Affairs for Life Sciences

- Department Chair: Virginia Bayer
- Office: SB 243a
- Telephone: 801-863-6050
- Email: bayerv@uvu.edu
- Coordinator: Haven McCall
- Office: PS 201
- Telephone: 801-863-5422
- Email: Haven.McCall@uvu.edu
- Advisor: Terrell Wyne
- Office: HP 203a
- Telephone: 801-863-6208
- Email: wychne@uvu.edu
- 

Program Description

The Regulatory Affairs for Life Sciences Graduate Certificate program will provide students with the skills required to interpret and manage regulatory and quality compliance issues that are critical for the Life Sciences. The curriculum materials include formal studies that are specific to regulatory sciences (domestic and international), quality management system, and design control. Students will gain experience in technical communications with an emphasis on the theory and practice of technical writing as it relates to industry-based submissions. Students will participate in an internship or capstone project with a medical device, pharmaceutical, diagnostics, or biotechnology company. A baccalaureate degree in a science or a technology-related area of study will be required.

Admission Requirements

1. Bachelor degree from a regionally accredited US college or university.
2. A Minimum GPA of 3.0 on a 4.0 scale.

2015-16 Graduate--Tuition and General Fee Schedule

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Resident</th>
<th>Non-Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tuition</td>
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<td>0.5</td>
<td>131.50</td>
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<td>1.0</td>
<td>263.00</td>
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<tr>
<td>4.5</td>
<td>1,183.50</td>
<td>157.50</td>
</tr>
</tbody>
</table>

Course Descriptions

Biology........................................................................................................................................ 546

Degrees & Programs

Regulatory Affairs For Life Sciences, Graduate Certificate

Requirements

The Regulatory Affairs for Life Sciences Graduate Certificate program will provide students with the skills required to interpret and manage regulatory and quality compliance issues that are critical for the Life Sciences. The curriculum materials include formal studies that are specific to regulatory sciences (domestic and international), quality management system, and design control. Students will gain experience in technical communications with an emphasis on the theory and practice of technical writing as it relates to industry-based submissions. Students will participate in an internship or capstone project with a medical device, pharmaceutical, diagnostics, or biotechnology company. A baccalaureate degree in a science or a technology-related area of study will be required.

Total Program Credits: 15

Matriculation Requirements:

1. B.S. degree in Biology, Biotechnology, or related field.

Discipline Core Requirements: 15 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BIOL 6000</td>
<td>Regulatory Affairs for Life Sciences</td>
</tr>
<tr>
<td>BIOL 6010</td>
<td>Quality Management Systems for the Life Sciences</td>
</tr>
<tr>
<td>BIOL 6020</td>
<td>Design Control and Risk Management for the Life Sciences</td>
</tr>
<tr>
<td>ENGL 5340</td>
<td>Technical Communication Theory and Practice</td>
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<tr>
<td>BIOL 579R</td>
<td>Special Topics</td>
</tr>
<tr>
<td>BIOL 681R</td>
<td>Biology Internship</td>
</tr>
<tr>
<td>or BIOL 680R</td>
<td>Capstone Project (1.0)</td>
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</table>

Graduation Requirements:

- 5.0
- 1,315.00
- 175.00
- 1,490.00
- 5.0
- 4,010.00
- 175.00
- 4,185.00
- 5.5
- 1,446.50
- 192.50
- 1,639.00
- 5.5
- 4,411.00
- 192.50
- 4,603.50
- 6.0
- 1,578.00
- 210.00
- 1,788.00
- 6.0
- 4,812.00
- 210.00
- 5,022.00
- 6.5
- 1,709.50
- 227.50
- 1,937.00
- 6.5
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- 227.50
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- 7.0
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- 7.5
- 1,972.50
- 262.50
- 2,235.00
- 7.5
- 6,015.00
- 262.50
- 6,277.50
- 8.0
- 2,104.00
- 280.00
- 2,384.00
- 8.0
- 6,416.00
- 280.00
- 6,696.00
- 8.5
- 2,235.50
- 297.50
- 2,533.00
- 8.5
- 6,817.00
- 297.50
- 7,114.50
- 9.0
- 2,367.00
- 315.00
- 2,682.00
- 9.0
- 7,218.00
- 315.00
- 7,533.00
- 9.5
- 2,498.50
- 332.50
- 2,831.00
- 9.5
- 7,619.00
- 332.50
- 7,951.00
- 10.0
- 2,630.00
- 350.00
- 2,980.00
- 10.0
- 8,020.00
- 350.00
- 8,370.00
- 10.5
- 2,761.50
- 350.00
- 3,111.50
- 10.5
- 8,421.00
- 350.00
- 8,771.00
- 11.0
- 2,893.00
- 350.00
- 3,243.00
- 11.0
- 8,822.00
- 350.00
- 9,172.00
- 11.5
- 3,024.50
- 350.00
- 3,374.50
- 11.5
- 9,223.00
- 350.00
- 9,573.00
- 12.0
- 3,156.00
- 350.00
- 3,506.00
- 12.0
- 9,624.00
- 350.00
- 9,974.00

For each credit hour over 12, $263 per credit hour will be assessed for residents and $802 per credit hour for non-residents.
Biology Graduate Studies

1. Minimum of 15 credits required for certificate
2. Minimum GPA of 3.0 for graduation
3. Residency hours -- minimum of 4 credit hours through course attendance at UVU.

Regulatory Affairs For Life Sciences, Graduate Certificate

Careers

Contact the department for careers.

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Life Scientists, All Other
- Biological Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education
Business Graduate Studies

Woodbury School of Business

Dean: Norman S. Wright

- Office: WB 128b
- Telephone: 801-863-8260
- Email:norman.wright@uvu.edu

WSB Graduate Program Director: Trisha Alexander

- Office: WB 127b
- Telephone: 801-863-6148
- Email:TrishaA@uvu.edu

Master of Business Administration

MBA Academic Director: Tammy Parker

- Office: WB 230
- Telephone: 801-863-8367
- Email:Tammy.Huffman@uvu.edu

MBA Program Manager: TBD

- Office: WB 127a
- Telephone: 801-863-5099

Advisor: Terry Smith

- Office: WB 132a
- Telephone: 801-863-8314
- Email:acordte@uvu.edu

Administrative Support: TBD

- Office: WB 127
- Telephone: 801-863-5504

Program Description

Utah Valley University offers two distinct MBA tracks. The professional, part-time, Master of Business Administration track is an applied graduate degree that reflects the Woodbury School of Business’s long and distinguished history of providing excellence in business education. Our innovative team-based curriculum reaches beyond the walls and textbooks of a traditional program and is geared toward students with a moderate level of business management experience. This professional program leverages the management experiences of our professional students while focusing on application and practice through the use of group discussions, case studies, simulations, projects, and interaction with regional organizations and business leaders. The two year program offers two areas of emphasis in management or accounting and meets on Tuesday and Thursday evenings—an ideal schedule for enterprising professionals.

Our full-time accelerated Master of Business Administration option is designed to meet the needs of students that have completed their undergraduate degree and would like to continue their education through a one-year, three semester, accelerated program. This curriculum requires a full-time effort, as classes, workshops, and events are scheduled throughout the week. Due to the rigorous demands of this program, employment during enrollment is discouraged. Courses concentrate on real-world and engaged activities designed to assist students as they prepare to enter the business world. Two areas of emphasis are offered—business management and accounting.

The MBA program embraces the university’s designation as an engaged learning campus. Students immerse themselves in all aspects of business management, including accounting, leadership, marketing, economics, ethics, and social responsibility. Throughout the program, students will participate in several integration modules, designed to integrate the various functions of business through projects, simulations, and comprehensive case studies.

Prerequisites

All prerequisite and proficiency courses must be completed prior to beginning the program. The prerequisite courses for Finance and Business Statistics taken within the last five years with a “C” grade or better by April 1 of each year, meet the prerequisite requirement.

Students may elect to fulfill their prerequisites through the successful completion of online course “boot camps” through UVU’s Continuing Education Department. These self-paced courses have been developed by Woodbury School of Business faculty and are designed to prepare students for the rigor of their MBA program. These courses are not for credit. Registration and payment are through the Continuing Education Department. Contact the MBA office for additional information.

Accelerated Business Core "Boot camp" (13.5 credit hours):

- Financial and Managerial Accounting (3.0)
- Corporate Finance (1.5)
- Marketing (1.5)
- Operations Management (1.5)
- Economics (3)
- Management (1.5)
- Legal/Ethical Environment (1.5)

Prerequisite Courses (or equivalent classes) from Undergraduate Studies:

- ECON 2020 Introduction to Macroeconomics
- ECON 2020 Introduction to Microeconomics
- ACCT 2010 Financial Accounting
- ACCT 2020 Managerial Accounting
- LEGL 3000 Business Law
- MGMT 2240 Business Statistics
- MGMT 2340 Business Calculus
- MGMT 3010 Principles of Management
- MGMT 3100 Principles of Finance
- MGMT 3600 Principles of Marketing
- MGMT 3450 Operations Management

Application Process

Baccalaureate degree holders with both business and non-business majors may apply. Deadlines and current application requirements are posted on the website, www.uvu.edu/mba. Applicants must submit all of the following to the Woodbury School of Business:

2. Remit a nonrefundable $45 fee by check or money order (payable to UVU).
3. Forward all official university transcripts.
4. Respond to the two admission essay questions.
5. Submit a current resume that includes educational background and professional work experience.
6. Provide three letters of recommendation. Recommenders can send letters of recommendation or complete electronic evaluation forms.

Send official GMAT test scores. GMAT registration is available at www.mba.com. Submit TOEFL scores with a minimum of 79 for the Internet-based test (This is only for applicants for whom English is a second language and who have not earned a degree in the U.S.)

1. Student interviews may also be requested at the discretion of the student selection committee.

Reapplication

If an applicant is not admitted, he/she may reapply again at a later time. All current admission requirements at the time of application must be met.

Satisfactory Progress

Continuation in the Master of Business Administration program is determined by: (1) satisfactory progress (C or higher) in all courses (completed courses with a grade lower than a C must be repeated) and (2) faculty committee chair and the graduate admission and retention committee recommendation.
Academic Probation

A student can be recommended for academic probation for the following reason(s): (1) Failure to meet the scholarship requirements of the Graduate Program of an overall GPA of 3.00 (on a 4.00 scale) or higher, with no individual course grade lower than C; (2) Failure to complete prescribed courses; and/or (3) Failure to adhere to University student rights and responsibilities standards.

Dismissal from the Program

A student can be dismissed from the Master of Business Administration program for the following reason(s):

1. Academic dishonesty;
2. Continued failure to meet academic standards; and/or
3. Continued failure to adhere to University student rights and responsibilities standards.

Courses

Admission to the Master of Business Administration program is a requirement for enrollment into all Master of Business Administration courses.

<table>
<thead>
<tr>
<th>2015-16 Graduate--MBA Tuition and General Fee Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>Credit</td>
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<td>11.5</td>
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<tr>
<td>12.0</td>
</tr>
</tbody>
</table>

For each credit hour over 12, $573 per credit hour will be assessed for residents and $1,238 per credit hour for non-residents.

Course Descriptions

Accounting

Economics

Finance

Legal Studies

Business Management

Marketing 686

Degrees & Programs

Master of Business Administration - Accounting Emphasis, M.B.A

Requirements

The UVU Master of Business Administration is an applied graduate degree that reflects the Woodbury School of Business's long and distinguished history of providing excellence in business education. Our innovative team-based curriculum reaches beyond the walls and textbooks of a traditional program and includes not only instruction in the disciplines of business, but also offers many opportunities to apply important skills such as leadership, teamwork, ethical decision making, critical thinking and problem solving, written and oral communication as they are woven throughout the curriculum. Students immerse themselves in all aspects of business management, including accounting, marketing, economics, and social responsibility. Students participate in an international project and travel to the country of their project hosts. The program culminates with a comprehensive real-life consulting project with a company operating in our region.

The full-time track for the Master of Business Administration program at Utah Valley University is a one year, accelerated MBA program that offers either of two concentration areas in management or accounting.

The part-time track for the Master of Business Administration program at Utah Valley University is a two year plan for working professionals which embraces the university’s designation as an engaged learning campus and also offers either of two concentration areas in management or accounting.

FACULTY

ARMSTRONG, Vaughn S. Associate Professor
BAILEY, James Professor
CALISKAN, Cenk Associate Professor
CARTER, Larry L. Associate Professor
CHAN, Leo Associate Professor
CIESLEWICZ, Joshua Assistant Professor
COX, Vaughn Professional in Residence
DISHMANN, Paul Associate Professor
GLENN, Lowell M. Associate Professor
HAMIDI, Mohsen Assistant Professor
HELQUIST, Joel Associate Professor
HUFF, Steven Associate Professor
HUFFMAN, Tammy Associate Professor
JENNE, Stanley E. Professor
JOHNSON, Steven D. Associate Professor
MADSEN, Susan Rae Professor
MCARTHUR, David N. Associate Professor
MORTENSEN, James Professional In Residence
PETERTSON, Jeffrey Associate Professor
ROBINSON, Peter B. Morris Professor of Entrepreneurship
ROSSI DE OLIVEIRA, Andre Associate Professor
SMITH, Kevin Associate Professor
TAUTE, Harry A. Associate Professor

Degrees & Programs

Master of Business Administration - Accounting Emphasis, M.B.A

Requirements

The UVU Master of Business Administration is an applied graduate degree that reflects the Woodbury School of Business's long and distinguished history of providing excellence in business education. Our innovative team-based curriculum reaches beyond the walls and textbooks of a traditional program and includes not only instruction in the disciplines of business, but also offers many opportunities to apply important skills such as leadership, teamwork, ethical decision making, critical thinking and problem solving, written and oral communication as they are woven throughout the curriculum. Students immerse themselves in all aspects of business management, including accounting, marketing, economics, and social responsibility. Students participate in an international project and travel to the country of their project hosts. The program culminates with a comprehensive real-life consulting project with a company operating in our region.

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The part-time track for the Master of Business Administration program at Utah Valley University is a two year plan for working professionals which embraces the university’s designation as an engaged learning campus and also offers either of two concentration areas in management or accounting.
The MBA program is AACSB accredited.

Total Program Credits: 36

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 6350 Accounting Strategies for Achieving Profit Goals</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6150 Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6740 Operations and Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6800 Global Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6910 Designing Business</td>
<td>1.5</td>
</tr>
<tr>
<td>MGMT 6930 International Engagement</td>
<td>1.5</td>
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<tr>
<td>MGMT 6940 MBA Consulting Project</td>
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<tr>
<td>MKTG 6920 Creativity and Innovative Problem Solving</td>
<td>1.5</td>
</tr>
<tr>
<td>MGMT 6950 Ethical Decision Making</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Track One: Professional Part-Time
- MGMT 6200 Effectively Managing and Facilitating Teams (1.5)
- MGMT 6250 Managing Human Capital (1.5)
- MKTG 6610 Competitive Intelligence and Analysis (1.5)
- MKTG 6810 Identifying and Leveraging Customer Opportunities (1.5)

Track Two: Full-Time
- MGMT 6500 Managing Individuals and Groups (3.0)
- MKTG 6600 Marketing Strategy (3.0)

Emphasis Requirements: 9 Credits
- ACC 6410 Tax Research and Procedure | 3 |
- ACC 6510 Financial Auditing | 3 |
- ACC 6960 Accounting Theory and Research | 3 |

Graduation Requirements:
1. Completion of 36 hours of approved credit with no grade lower than a "C" as described in this program.
2. Graduates may not transfer more than ten hours into this MBA program, preferably from an AACSB accredited institution. All transfer courses will be reviewed by a graduate committee managed by the Woodbury School of Business.
3. Final approval for graduation will be determined by the MBA graduate committee of the Woodbury School of Business.
4. A minimum cumulative GPA of 3.0 or higher must be maintained within program.

Master of Business Administration - Management Emphasis, M.B.A

Requirements
The UVU Master of Business Administration is an applied graduate degree that reflects the Woodbury School of Business's long and distinguished history of providing excellence in business education. Our innovative team-based curriculum reaches beyond the walls and textbooks of a traditional program and includes not only instruction in the disciplines of business, but also offers many opportunities to apply important skills such as leadership, teamwork, ethical decision making, critical thinking and problem solving, written and oral communication as they are woven throughout the curriculum. Students immerse themselves in all aspects of business management, including accounting, marketing, economics, and social responsibility. Students participate in an international project and travel to the country of their project hosts. The program culminates with a comprehensive real-life consulting project with a company operating in our region.

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Total Program Credits: 36

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<tr>
<th>Discipline Core Requirements</th>
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<td>ACC 6350 Accounting Strategies for Achieving Profit Goals</td>
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</tr>
<tr>
<td>MKTG 6920 Creativity and Innovative Problem Solving</td>
<td>1.5</td>
</tr>
<tr>
<td>MGMT 6950 Ethical Decision Making</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Track One: Professional Part-Time
- MGMT 6200 Effectively Managing and Facilitating Teams (1.5)
- MGMT 6250 Managing Human Capital (1.5)
- MKTG 6610 Competitive Intelligence and Analysis (1.5)
- MKTG 6810 Identifying and Leveraging Customer Opportunities (1.5)

Track Two: Full-Time
- MGMT 6500 Managing Individuals and Groups (3.0)
- MKTG 6600 Marketing Strategy (3.0)

Emphasis Requirements: 9 Credits
- ECON 6460 Economics for Decision Making | 1.5 |

Related Careers
- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

The job market will likely hold steady for 2014 MBA graduates, according to the Graduate Management Admission council. More than three-quarters of employers that plan to hire graduates expect to maintain or increase their hiring this year. They also report that projected hiring for 2014 is much improved from a few years ago. In addition, between 45 and 58 percent of employers plan to increase annual base salaries at or above the rate of inflation, an indicator that demand for talented graduates remains strong.
Graduation Requirements:

1. Completion of 36 hours of approved credit with no grade lower than a "C" as described in this program.
2. Graduates may not transfer more than ten hours into this MBA program, preferably from an AACSB accredited institution. All transfer courses will be reviewed by a graduate committee managed by the Woodbury School of Business.
3. Final approval for graduation will be determined by the MBA graduate committee of the Woodbury School of Business.
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Master of Business Administration - Management Emphasis, M.B.A

Careers:

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Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary
Center for Constitutional Studies

Name: Center for Constitutional Studies
Location: LI 305
Telephone: 801-863-5470
Email: constitution@uvu.edu
Web Address: uvu.edu/ccs
Director: Rick A. Griffin

Director: Rick A. Griffin
Administrative Assistant: Matthew Nolte

The Center for Constitutional Studies is a nonpartisan, academic institute that promotes the study, instruction, and research of constitutionalism. In particular, it examines important constitutional issues found at the intersections of political thought, public policy, public law, religion, history, and economics. Employing a multidisciplinary approach, the Center seeks to more effectively equip a new generation of citizens and leaders with a broad understanding of political thought and economic and political practices critical to the perpetuation of constitutional government, ordered liberty, and the rule of law.

The Center promotes educational, scholarly, and public outreach endeavors across the state, the region, the nation, and the globe. It partners with the Political Science Program and other university entities on timely and important projects and events, and supports and promotes the Political Science Constitutional Studies Minor degree program.

Via its prestigious academic events, excellent constitutional studies course offerings, and character-building mentoring program, the Center has emerged as a leader in the fields of constitutional studies and civic leadership.

Recognized for its vision and accomplishments, the Center has hosted such prominent academicians and renowned figures as: two-time Pulitzer Prize winner, David McCullough; U.S. Court of Appeals Judge, Thomas B. Griffith; award-winning author and Harvard University Professor of Law, Noah Feldman; former Utah Governor, Michael O. Leavitt; Founding Secretary of the U.S. Department of Homeland Security, Governor Thomas Ridge; and renowned University of Pennsylvania Professor of Law and History, Sarah Barringer Gordon. The Center has truly emerged as a regional hub and national force for constitutional studies, driving and shaping debate on important constitutional, political, and economic issues facing the state of Utah, the Mountain West region, and the nation.

Regular public forums include: Constitution Week Conferences, Religious Freedom Symposia, and a score of other events dealing with key political and constitutional issues.

CCS forums and events are usually ticketed and free of charge.
The Center for Global and Intercultural Engagement (CGIE) supports the University efforts to prepare globally competent citizens. To accomplish these objectives, CGIE collaborates closely with colleges, schools, and other units across campus to create a community of students, staff, and faculty that share multicultural and international knowledge, attitudes, experiences, and efforts. We are committed to fostering an inclusive atmosphere for all students and to preparing them for an increasingly complex, diverse, and globalized society. CGIE is comprised of four programs.

1. International & Multicultural Studies: These programs support and facilitate international study programs, study abroad, internships, student exchanges, travel resources, global and multicultural faculty training, cultural excursions, and student workshops. The programs include the Global Spotlight Program, the New York Times Global Review, mentored research programs, and other engaged learning opportunities for students. IMS also is the primary provider of facilitation, training, and support for the Global/Intercultural Graduation Requirement. This requirement enables all UVU students to gain critical exposure to issues related to cross-cultural appreciation and understanding. IMS is also committed to inclusive teaching practices and approaches that enhance the learning of students from a variety of backgrounds and cultures.

2. Multicultural Student Services (MSS): Our programs provide a full range of support services targeting American minorities with an eye toward inclusion of all students across campus. The mission is to promote educational opportunities and intercultural enrichment for diverse heritage students and the wider campus community. Our programs aim to nurture student achievement and develop relationships that support student success, academic growth, retention, and completion of educational programs. Services include tutoring and counseling, social events, ethic club advisement and support, cultural talent opportunities, and registration and financial aid advising.

3. International Student Services (ISS): Our programs provide advisement and support on visa, employment, and academic issues for UVU’s international student population. Students with questions regarding immigration, visa, or related issues may visit one of our advisors in WB147. ISS activities including orientations each semester for all new international students, managing the federally mandated Student and Exchange Visitor Information System (SEVIS) to ensure that all international students at UVU are legally “in status,” and providing a variety of services designed to promote the academic success of our international students.

4. International Affairs & Diplomacy (IAD): Our office advances UVU’s presence and reach in the international community through cultural exchanges, diplomatic visits, economic development partnerships, and other related activities. Programs include the hosting and connecting international dignitaries including heads of state, ministers, ambassadors, business, educational, and religious leaders. We also act as a subcontractor for the Library of Congress Open World program and operate activities in connection to the Utah-Russia Institute.
Leadership Certification Program

The Center for the Advancement of Leadership (CAL) has designed an extra-curricular Engaged Learning University Distinction in Leadership for any and all students on the UVU Campus. Whether you are majoring in business, engineering, law, emergency services, biology, aviation, or any other degree or program, this Engaged Learning Distinction is designed for students who wish to advance their personal, interpersonal, organizational and/or civic leadership skills while pursuing their degrees and programs – making them more productive and marketable to their future employers and/or graduate schools.

All students are invited to preview the program by visiting our website at uvu.edu/leadership, attending our monthly Master Mind Meeting the first Monday of each month, or visiting our office in LC 302 (863-6466).

Leadership Certification Structure

The Engaged Learning University Distinction in Leadership focuses on four key aspects of personal development (Learn, Engage, Acquire, and Discover). Together, these four aspects ensure leadership growth concurrently in both the personal and professional arenas.

The Engaged Learning University Distinction in Leadership is a two year program.

Advisory Board:

Jeff Kahn, (Current Board Chair) RJR Investments; Lieutenant Colonel Hank McIntire, Public Affairs Officer Utah National Guard; Craig Porter-Rollins, CEO L J Cooper; David Reeves, Imagine Learning; Christina Roach, JD; Kelly Johnson, Branch Manager at Bank of Utah; Margaret Jensen, Manager at LDS Employment Resource Services; Mark Woodmansee, Precision Air Cargo; Ron Hinckley, President (retired) Research/Strategy/Management, Inc.
The Center for the Study of Ethics (CSE) supports and facilitates the interdisciplinary study of ethics. This includes traditional moral philosophy and the integration of theory and practice across the disciplines and professions. Center activities include public forums, co-curricular support of faculty and student scholarship, and community engagement activities.

Because an educated citizenry is necessary for democracy, the study of interdisciplinary ethics aids individuals in moral decision-making relevant to professional, private, and public life. While CSE programming addresses a range of challenging ethical and public policy issues, the CSE is a non-advocacy center designed to promote academic achievement and community dialogue.

Regular events include Ethics Awareness Week, the Environmental Ethics Symposium, the Faculty Summer Seminar. The CSE also hosts a variety of customized forums in response to student interest and contemporary events.

The organizational structure of the CSE is comprised of an Executive Committee, the Community Advisory Board, and the Faculty Advisory Committee.

Ethics forums are free and open to the public.
Mission Statement

The Chemistry Department is dedicated to providing a high quality chemistry education for the students at Utah Valley University. The department offers a wide variety of classes to support other departments and to provide excellent training leading to a Bachelor of Science in Chemistry or a Bachelor of Science in Chemistry/Physics Education. The chemistry faculty is committed to encouraging students to learn and to do research not only in their course work, but in their lifelong careers.

Chemistry

• Department Chair: Daren Heaton
• Telephone: 801-863-6017
• Email: Daren.Heaton@uvu.edu
• Administrative Support: Kellie D. Hancock
• Telephone: 801-863-6295
• Email: Hancocke@uvu.edu

Faculty:

• Professor
• Asmahan El Ezzi
• Associate Professor
• Calvin Bond
• Fern Caaka
• Gamini Gunawardena
• Daren Heaton
• Matthew Horn
• Craig Thulin
• Bruce Wilson
• Assistant Professor
• Merrill Halling
• Young Wan Ham
• James Shurtleff
• Lecturer
• Moana Hopoate-Sitake

Advisors:

• Tom Liljegren
• Office: PS 201
• Telephone: 801-863-8616
• Email: TLiljegren@uvu.edu

Pre-Health Professions Counseling:

• Office: LC 402
• Telephone: 801-863-6484
• Email: prehealth@uvu.edu

Staff:

Lab Manager/Instructor: Kris Andress
Lab Manager/Instructor: Craig Moore
Lab Manager/Instructor, Inorganic Chemistry: Tom Strangfeld
Lab Manager/Instructor, Organic Chemistry: Chin Yah Yeh
Manager, Central Stock Room: Keshar Tamrakar

Career Opportunities

Graduates with a bachelor degree in Chemistry will be prepared to work in industry or pursue a graduate degree in chemistry. Current employment opportunities for graduates in Chemistry programs are good.

Graduates with a bachelor degree in Chemistry Education will be prepared to teach chemistry in junior and senior high. Current employment opportunities for graduates from Chemistry Education programs are excellent.

Programs

Students may receive:

• Bachelor of Science in Chemistry with an Emphasis in Biochemistry
• Bachelor of Science in Chemistry with an Emphasis in Forensic Chemistry
• Bachelor of Science in Chemistry with an Emphasis in Professional Chemistry
• Bachelor of Science in Chemistry Education

Admission Requirements

A student who wants to pursue a chemistry major should meet with the department chair or chemistry advisor for advisement.

DEPARTMENT CHAIR
CAKA, Fern Associate Professor

FACULTY
BOND, Calvin A. Associate Professor
CAKA, Fern Associate Professor
CHAMBERLAND, Stephen Assistant Professor
EL EZZI, Asmahan Professor
GUNAWARDENA, Gamini U. Associate Professor
HALLING, Merrill Assistant Professor
HAM, Young W. Associate Professor
HOPOATE-SITAKE, Moana Lecturer
HORN, Matthew Associate Professor
SHURTLEFF, James K. Assistant Professor
THULIN, Craig Associate Professor
WATHEN, Mark D. Assistant Professor
WILSON, Bruce E. Associate Professor

Course Descriptions

Chemistry ........................................................................................................... 555

Degrees & Programs

Chemistry, Minor

Requirements

Total Program Credits: 27

Matriculation Requirements:

1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 24 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM 1210</td>
<td>Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1220</td>
<td>Principles of Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1215</td>
<td>Principles of Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1225</td>
<td>Principles of Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 2310</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2320</td>
<td>Organic Chemistry II</td>
<td>4</td>
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</table>
**Chemistry**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CHEM 2315</td>
<td>Organic Chemistry I Laboratory</td>
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</tr>
<tr>
<td>CHEM 2325</td>
<td>Organic Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 3000</td>
<td>Analytical Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 3005</td>
<td>Analytical Chemistry Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

**Elective Requirements:** 3 Credits

Any upper-division chemistry class numbered above 3000 with a minimum of 3 credit hours

**Graduation Requirements:**

1. Complete all courses with a minimum grade of "C-" or better.

**Chemistry, Minor**

**Careers**

**Related Careers**

- Natural Sciences Managers
- Chemists
- Chemistry Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

**Chemistry - Biochemistry Emphasis, B.S.**

**Requirements**

Biochemistry studies the chemical composition of living things. Biochemistry combines the study of biology with organic and inorganic chemistry as applied to topics such as enzymology, genetics, toxicology, pharmacology, food science, and medicine. Students with this degree may pursue graduate study or work in the field of biotechnology or in one of the many related areas or be eligible for many employment opportunities in chemistry and biology.

**Total Program Credits: 121**

**General Education Requirements:** 39 Credits

- ENGL 1010  Introduction to Writing  3
- ENGL 2020  Intermediate Writing—Science and Technology  3
- MATH 1210  Calculus I  5

Complete one of the following:

- HIST 1700  American Civilization (3.0)
- HIST 2700  US History to 1877 (3.0)
- HIST 2710  US History since 1877 (3.0)
- HIST 1740  US Economic History (3.0)
- POLS 1000  American Heritage (3.0)
- POLS 1100  American National Government (3.0)

Complete the following:

- PHIL 2050  Ethics and Values  3
- HLTH 1100  Personal Health and Wellness (2.0)
- or PES 1097  Fitness for Life  2

**Distribution Courses:**

- Biology  3
- or BIOL 1610  College Biology I (4.0) (Required for Forensic Chemistry and Biochemistry)
- CHEM 1210  Principles of Chemistry I (To be taken with CHEM 1215)  4
- CHEM 1220  Principles of Chemistry II (To be taken with CHEM 1225)  4

**Emphasis Requirements:** 16 Credits

- BIOL 1615  College Biology I Laboratory  1
- BIOL 1620  College Biology II  3
- BIOL 1625  College Biology II Laboratory  1
- BIOL 3400  Cell Biology  3
- BIOL 3405  Cell Biology Laboratory  1
- CHEM 3090  Physical Chemistry Applications in Biology  3
- CHEM 3115  Physical and Inorganic Chemistry Laboratory  1
- CHEM 3620  Biological Chemistry II  3

**Emphasis Elective Requirements:** 20 Credits

- One Upper-division (3000 and above) Chemistry course except CHEM 3060 and CHEM 3070  3

A minimum of 17 credits from the following:

- BIOL 3300  Developmental Biology (3.0)
- BIOL 3500  Genetics (3.0)
- or BIOL 3505  Genetics Tutorial (0.5)
- BIOL 3515  Advanced Genetics Laboratory (1.0)
- BIOL 3550  Molecular Biology (3.0)
- BIOL 4300  Bioinformatics and Genome Analysis (4.0)
BIOL 4450  Immunology (3.0)
BIOL 4455  Immunology Laboratory (1.0)
and
ZOOL 2320  Human Anatomy (3.0)
ZOOL 2325  Human Anatomy Laboratory (1.0)
ZOOL 2420  Human Physiology (3.0)
and
ZOOL 2425  Human Physiology Laboratory (1.0)
ZOOL 4300  Histology (4.0)
CHEM 496R  Special Topics in Chemistry (1.0)

Graduation Requirements:
1. Completion of a minimum of 121 semester credits with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 (C) or above with a minimum of 2.25 in Major.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. A minimum of 54 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 28 chemistry credits must be upper-division.
6. Complete all chemistry and physics courses with a minimum grade of "C-" or better.
7. Successful completion of at least one Global/Intercultural course.

Chemistry - Biochemistry Emphasis, B.S.

Related Careers
- Natural Sciences Managers
- Chemists
- Chemistry Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Chemistry - Forensic Chemistry Emphasis, B.S.

Requirements
The Forensic Chemistry emphasis prepares a student for work in a forensic laboratory. A forensic chemist is a professional chemist who analyzes evidence that is brought in from crime scenes and reaches a conclusion based on tests run on that piece of evidence. Classes deal with fingerprint and bloodstain pattern analysis, chemical trace analysis, impression evidence, etc. as well as criminal law.

In obtaining this degree, students will learn how to:
- Use modern scientific instruments and interpret results
- Apply principles used in chemistry to solve everyday problems
- Think analytically
- Use problem solving skills
- Categorize information
- Apply learned math skills
- Develop laboratory skills

Total Program Credits: 125

General Education Requirements: 39 Credits
- ENGL 1010  Introduction to Writing 3
- ENGL 2020  Intermediate Writing--Science and Technology 3
- MATH 1210  Calculus I 5

Complete one of the following: 3
- HIST 1700  American Civilization (3.0)
- HIST 2700  US History to 1877 (3.0)

and
- HIST 2710  US History since 1877 (3.0)

Emphasis Requirements: 31 Credits
- BIOL 1615  College Biology I Laboratory 1
- CHEM 3090  Physical Chemistry Applications in Biology 3
- CHEM 3700  Forensic Analytical Chemistry 3
- MATH 2040  Principles of Statistics 4

Forensic Requirements:
## Chemistry

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 482R</td>
<td>Chemistry Internship</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1330</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1340</td>
<td>Criminal Investigations</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1350</td>
<td>Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>CJ 2350</td>
<td>Laws of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3880</td>
<td>Expert Witness Professional Practices</td>
<td>3</td>
</tr>
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</table>

Complete one of the following: 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 2500</td>
<td>Environmental Biology (3.0)</td>
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</tr>
<tr>
<td>BIOL 3650</td>
<td>Biotechnology (2.0)</td>
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</tr>
<tr>
<td>MICR 2060</td>
<td>Microbiology for Health Professions</td>
<td></td>
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<tr>
<td>and</td>
<td>MICR 2065</td>
<td>Microbiology for Health Professions Laboratory (1.0)</td>
</tr>
<tr>
<td>ZOOL 2320</td>
<td>Human Anatomy</td>
<td></td>
</tr>
<tr>
<td>and</td>
<td>ZOOL 2325</td>
<td>Human Anatomy Laboratory</td>
</tr>
<tr>
<td>ZOOL 2420</td>
<td>Human Physiology</td>
<td></td>
</tr>
<tr>
<td>and</td>
<td>ZOOL 2425</td>
<td>Human Physiology Laboratory</td>
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</table>

Emphasis Elective Requirements: 9 Credits

Complete 9 credits from the following recommended courses: 9

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL 3400</td>
<td>Cell Biology (3.0)</td>
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</tr>
<tr>
<td>BIOL 3500</td>
<td>Genetics (3.0)</td>
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</tr>
<tr>
<td>and</td>
<td>BIOL 3505</td>
<td>Genetics Tutorial (0.5)</td>
</tr>
<tr>
<td>BIOL 3550</td>
<td>Molecular Biology (3.0)</td>
<td></td>
</tr>
<tr>
<td>BIOL 4450</td>
<td>Immunology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MICR 3450</td>
<td>General Microbiology (3.0)</td>
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<tr>
<td>and</td>
<td>MICR 3455</td>
<td>General Microbiology Laboratory (1.0)</td>
</tr>
<tr>
<td>GEO 3400</td>
<td>Forensic Geology (4.0)</td>
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</tr>
<tr>
<td>FSCI 3400</td>
<td>Criminalistics (3.0)</td>
<td></td>
</tr>
<tr>
<td>FSCI 3500</td>
<td>Footwear Impression Evidence (3.0)</td>
<td></td>
</tr>
<tr>
<td>FSCI 3520</td>
<td>Tire Imprint Evidence (3.0)</td>
<td></td>
</tr>
<tr>
<td>FSCI 3540</td>
<td>Forensic Trace Analysis I (3.0)</td>
<td></td>
</tr>
<tr>
<td>FSCI 3550</td>
<td>Forensic Trace Analysis II (3.0)</td>
<td></td>
</tr>
<tr>
<td>FSCI 3700</td>
<td>Fingerprint Examination I (3.0)</td>
<td></td>
</tr>
<tr>
<td>FSCI 3720</td>
<td>Fingerprint Examination II (3.0)</td>
<td></td>
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<tr>
<td>FSCI 3740</td>
<td>Fingerprint Examination III (3.0)</td>
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<tr>
<td>FSCI 3780</td>
<td>Bloodstain Pattern Analysis (3.0)</td>
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<tr>
<td>FSCI 3800</td>
<td>Computer Forensics and Cyber Crime (3.0)</td>
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<tr>
<td>FSCI 3820</td>
<td>Crime Scene Investigation Techniques I (3.0)</td>
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<tr>
<td>FSCI 382L</td>
<td>Crime Scene Investigation Techniques Laboratory I (1.0)</td>
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<tr>
<td>FSCI 3850</td>
<td>Marijuana Identification Certificate (3.0)</td>
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</tr>
<tr>
<td>FSCI 3860</td>
<td>Forensic Microscopy (3.0)</td>
<td></td>
</tr>
<tr>
<td>FSCI 4400</td>
<td>Forensic Chemistry (3.0)</td>
<td></td>
</tr>
<tr>
<td>CHEM 496R</td>
<td>Special Topics in Chemistry (1.0)</td>
<td></td>
</tr>
</tbody>
</table>

Or other Courses in consultation with the Department Academic Advisor

### Graduation Requirements:

1. Completion of a minimum of 121 semester credits with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 (C) or above with a minimum of 2.25 in Major.
3. Residency hours – minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. A minimum of 54 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 28 chemistry credits must be upper-division.
6. Complete all chemistry and physics courses with a minimum grade of “C-” or better.
7. Successful completion of at least one Global/Intercultural course.

### Chemistry - Forensic Chemistry Emphasis, B.S.

#### Related Careers

- Natural Sciences Managers
- Chemists
- Chemistry Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

### Chemistry - Professional Chemistry Emphasis, B.S.

#### Requirements

This bachelor’s degree in professional chemistry prepares a student for employment as a chemist. It also prepares a student for further study in a graduate degree or professional program. This degree is designed to meet American Chemical standards for a bachelor degree. Job opportunities for students with this degree are very good. Students with this degree can have careers in test laboratories, government laboratories, hospital laboratories, research and development, quality control, manufacturing, and many other areas.

In obtaining this degree, students will learn how to:
- Use modern scientific instruments and interpret results
- Apply principles used in chemistry to solve everyday problems
- Think analytically
- Use problem solving skills
- Categorize information
- Apply learned math skills
- Develop laboratory skills

#### Total Program Credits: 121

### General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
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</tr>
<tr>
<td>MATH 1210</td>
<td>Calculus I</td>
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</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
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<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
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<tr>
<td>and</td>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
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<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
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<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
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Complete the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
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</tr>
<tr>
<td>or</td>
<td>PES 1097</td>
<td>Fitness for Life</td>
</tr>
</tbody>
</table>

### Distribution Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOI 1610</td>
<td>College Biology I (4.0) (Required for Forensic Chemistry and Biochemistry)</td>
<td></td>
</tr>
</tbody>
</table>
Graduation Requirements:

1. Completion of a minimum of 121 semester credits with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 (C) or above with a minimum of 2.25 in Major.
3. Residency hours – minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
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6. Complete all chemistry and physics courses with a minimum grade of "C-" or better.
7. Successful completion of at least one Global/Intercultural course.

Chemistry - Professional Chemistry Emphasis, B.S.

Related Careers

- Natural Sciences Managers
- Chemists
- Chemistry Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Chemistry Education, B.S.

Requirements

The degree in chemistry education prepares a student to teach chemistry in secondary education. Students that complete this degree receive endorsements to teach chemistry. Completion of this program is dependent upon being accepted into the Secondary Education program through the School of Education. There is a great demand for teachers in chemistry and employment opportunities are excellent. In obtaining this degree, students will learn how to:

- Use modern scientific instruments and interpret results
- Think analytically
- Apply problem solving skills
- Categorize information
- Apply learned math skills
- Develop laboratory skills

Total Program Credits: 124

Matriculation Requirements:

1. Students are admitted directly to the Baccalaureate degree program in Chemistry Education upon acceptance to the Secondary Education Program.
2. Students must obtain the departmental Advisor's signature on an approved program plan prior to enrollment in their second semester of study.

Secondary Education Requirements:

1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass LiveScan Criminal Background Check.

General Education Requirements: 39 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
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<td>ENGL 2020 Intermediate Writing--Science and Technology</td>
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</tr>
<tr>
<td>MATH 1210 Calculus I</td>
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</tr>
<tr>
<td>HIST 1700 American Civilization</td>
<td>3.0</td>
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<tr>
<td>POLS 1000 American Heritage</td>
<td>3.0</td>
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<tr>
<td>POLS 1100 American National Government</td>
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Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HIST 2710 US History since 1877</td>
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<tr>
<td>HIST 1740 US Economic History</td>
</tr>
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</table>

Complete the following:
PHIL 2050 Ethics and Values 3
HLTH 1100 Personal Health and Wellness (2.0)
or PES 1097 Fitness for Life 2

Distribution Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Biology</td>
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</tr>
<tr>
<td>CHEM 1210</td>
<td>Principles of Chemistry I (To be taken with CHEM 1215)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1220</td>
<td>Principles of Chemistry II (To be taken with CHEM 1225)</td>
<td>4</td>
</tr>
<tr>
<td>Humanities</td>
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</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 85 Credits

Chemistry Discipline Core Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1215</td>
<td>Principles of Chemistry I Laboratory (To be taken with CHEM 1210)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1225</td>
<td>Principles of Chemistry II Laboratory (To be taken with CHEM 1220)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 2310</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2320</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2315</td>
<td>Organic Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 2325</td>
<td>Organic Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 3000</td>
<td>Analytical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3060</td>
<td>Physical Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3100</td>
<td>Advanced Inorganic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4200</td>
<td>Teaching Methods in Science</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4920</td>
<td>Chemistry Capstone I</td>
<td>1</td>
</tr>
<tr>
<td>HIST 4320</td>
<td>History of Scientific Thought</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1220</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 2210</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2215</td>
<td>Physics for Scientists and Engineers I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 2220</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2225</td>
<td>Physics for Scientists and Engineers II Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 3600</td>
<td>Biological Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4000</td>
<td>Instrumental Analysis</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 4005</td>
<td>Instrumental Analysis Laboratory</td>
<td>2</td>
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Education Discipline Core Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSC 3000</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 3050</td>
<td>Foundations of American Education</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 3250</td>
<td>Instructional Media</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4200</td>
<td>Classroom Management I</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4250</td>
<td>Classroom Management II</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4440</td>
<td>Content Area Literacies</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 445G</td>
<td>Multicultural Instruction ESL</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4550</td>
<td>Secondary Curriculum Instruction and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4850</td>
<td>Student Teaching--Secondary</td>
<td>10</td>
</tr>
<tr>
<td>EDSP 3400</td>
<td>Exceptional Students</td>
<td>2</td>
</tr>
</tbody>
</table>

**Graduation Requirements:**

1. Completion of a minimum of 124 semester credits with a minimum of 40 upper-division credits.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. A minimum of 52 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 24 chemistry and physics credits must be upper-division.
6. Complete all chemistry courses with a minimum grade of "C-" or better.
7. Successful completion of at least one Global/Intercultural course.

**Chemistry Education, B.S.**

**Careers**

**Related Careers**

- Chemistry Teachers, Postsecondary
- Education Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education
Communication

Name: Communication
Location: CB 502A
Telephone: 801-863-8452
Email: courtney.burns@uvu.edu
Web Address: uvu.edu/comm
Chair: Janet Colvin

Mission Statement
The mission of the Department of Communication is to prepare students to execute critical thinking skills and to help students prepare for careers that require expertise in oral, written, and/or mediated communications. The department offers programs of study leading to Associate in Arts/Science and Bachelor of Arts/Science degrees with concentrations in Journalism, Public Relations, or Speech Communication. Communication is also available as a minor and an emphasis for a BA or BS in Integrated Studies.

Programs of study in Communication at UVU offer a balance of analytic and applied approaches to study in the field. The department offers an expanding menu of beginning and advanced courses in mass communication, public relations, media studies, interpersonal communication, intercultural communication, international communication, organizational communication, and journalism.

Encouraging student internships, and working closely with Student Media and other units on campus, the curriculum balances traditional, academic-style learning with applied, practical approaches to study in the field.

Journalism
- Coordinator: Jingdong Liang
  - Email: liangji@uvu.edu
- Advisor: L. Gae Robinson
  - Telephone: 801-863-6403
  - Email: leslie.robinson@uvu.edu

Notes:
1. Please contact Courtney Burns at 801-863-8452 to make an appointment to meet with Gae Robinson.
2. Communication students in the journalism emphasis are required to have laptop computers.

Public Relations
- Coordinator: Stephen Whyte
  - Email: stephen.whyte@uvu.edu
- Advisor: Natalie Shelley
  - Telephone: 801-863-7068
  - Email: natalie.shelley@uvu.edu

Notes: Please contact Courtney Burns at 801-863-8452 to make an appointment to meet with Natalie Shelley.

Speech Communication
- Coordinator: Nancy Tobler
  - Email: nancy.tobler@uvu.edu
- Advisor: L. Gae Robinson
  - Telephone: 801-863-6403

Notes: Please contact Courtney Burns at 801-863-8452 to make an appointment to meet with Gae Robinson.

DEPARTMENT CHAIR
COLVIN, Janet Associate Professor

FACULTY
BLEVINS, Maria Assistant Professor
COLVIN, Janet Associate Professor
FISHER, James Lecturer
GORDON, Philip Associate Professor
LIANG, Jingdong Associate Professor
MCINTIRE, Hank Lecturer
MORIN, David T. Assistant Professor
PATTERSON, Spencer Assistant Professor
SANDERS, Farah Lecturer
SCOTT, David W. Professor
TOBLER, Nancy Assistant Professor
WHYTE, Stephen L. Assistant Professor

Course Descriptions

Communication

Degrees & Programs
Communication, A.A.

Requirements
Programs of study in Communication at UVU offer a balance of analytic and applied approaches to study in the field. The department offers an expanding menu of beginning and advanced courses in mass communication, public relations, media studies, interpersonal communication, intercultural communication, international communication, organizational communication, and journalism.

Total Program Credits: 60

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>(3.0)</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (recommended for Social Science majors)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 2710</td>
<td>US History since 1877</td>
<td>(3.0)</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td>(3.0)</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>(3.0)</td>
</tr>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>(2.0)</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>
Distribution Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>COMM 2110 Interpersonal Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 16 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1000 Exploring the Communication Major</td>
<td>3</td>
</tr>
<tr>
<td>COMM 1020 Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td>or COMM 1130 Writing for the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM 1050 Introduction to Speech Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>or COMM 1500 Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 2300 Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>DGM 1110 Digital Media Essentials I</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective Requirements: 9 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 8 credit hours of one foreign language</td>
<td>8</td>
</tr>
<tr>
<td>Any 1000-level COMM course or higher not already taken</td>
<td>1</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.
6. Completion of COMM courses with a C- or higher.

Communication, A.A.

Careers

Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

Communication, A.S.

Requirements

Programs of study in Communication at UVU offer a balance of analytic and applied approaches to study in the field. The department offers an expanding menu of beginning and advanced courses in mass communication, public relations, media studies, interpersonal communication, intercultural communication, international communication, organizational communication, and journalism.

Total Program Credits: 60

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040 Introduction to Statistics (recommended for Social Science majors)</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700 US History to 1877</td>
<td>3.0</td>
</tr>
<tr>
<td>and HIST 2710 US History since 1877</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 1700 American Civilization</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 1740 US Economic History</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 1000 American Heritage</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 1100 American National Government</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Complete the following: 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness</td>
<td>2.0</td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>COMM 2110 Interpersonal Communication (fulfills Social/Behavioral Science)</td>
<td>3</td>
</tr>
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</table>

Discipline Core Requirements: 25 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>COMM 1000 Exploring the Communication Major</td>
<td>3</td>
</tr>
<tr>
<td>COMM 1020 Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td>or COMM 1130 Writing for the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM 1500 Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 2300 Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>DGM 1110 Digital Media Essentials I</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete nine credits from the following: 9

Journalism

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COMM 2100 The News Editing Process</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 2250 Principles of Advertising</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 2510 Visual Strategies for Communication Majors</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 2560 Radio Production</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 2790 Magazine Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 281R Internship</td>
<td>1.0</td>
</tr>
<tr>
<td>ART 1400 Graphic Computer Applications</td>
<td>3.0</td>
</tr>
</tbody>
</table>
Programs of study in Communication at UVU offer a balance of analytic and applied approaches to study in the field. The department offers an expanding menu of beginning and advanced courses in mass communication, public relations, media studies, interpersonal communication, intercultural communication, international communication, organizational communication, and journalism.

**Total Program Credits: 21**

**Discipline Core Requirements:**
- COMM 1020 Public Speaking (3.0)
- Choose two of the following: (6 credits)
  - COMM 1000 Exploring the Communication Major (3.0)
  - COMM 1050 Introduction to Speech Communication (3.0)
  - COMM 1130 Writing for the Mass Media (3.0)
  - COMM 1500 Introduction to Mass Communication (3.0)

**Total Credits: 120**

**General Education Requirements:**
- ENGL 1010 Introduction to Writing (3)
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- MATH 1040 Introduction to Statistics (3)

**Complete one of the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2050</td>
<td>Editing (3.0)</td>
<td></td>
</tr>
<tr>
<td>DGM 2120</td>
<td>Web Essentials (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 128R</td>
<td>Forensics (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 2115</td>
<td>Introduction to Health Communication (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 2120</td>
<td>Small Group Communication and Decision Making (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 2400</td>
<td>Organizational Communication (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 2270</td>
<td>Argumentation (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 281R</td>
<td>Internship (1.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3000</td>
<td>Public Relations (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3050</td>
<td>Theories of Communication and Culture (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3100</td>
<td>Propaganda and Persuasion (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 319G</td>
<td>Intercultural Communication Encounters (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3420</td>
<td>Communication and Conflict (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 350R</td>
<td>Special Topics in Communication (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3700</td>
<td>Free Expression in a Democratic Society (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 481R</td>
<td>Internship (May be repeated for 3.0 credits) (1.0)</td>
<td></td>
</tr>
</tbody>
</table>

Any other advisor approved courses.

**Graduation Requirements:**
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Completion of COMM courses with a C- or higher.

**Related Careers**
- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

**Communication, Minor**

**Careers**

Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

**Communication, A.S.**

**Careers**

Careers include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

**Communication - Journalism Emphasis, B.A.**

**Related Careers**
- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

**Requirements**

Students choosing a Communication degree with an emphasis in Journalism will have the opportunity to work with award-winning faculty and gain substantial amounts of hands-on experience. The program encourages students to get involved with The UVU Review, the student-produced campus news organization. The Review is an excellent way to build skills in print, broadcast, and web journalism. Course options for Journalism students range from introductory writing and reporting classes to advanced magazine writing, news editing, broadcast news, and long format video journalism. Students interested in a degree in Communication with an emphasis in Journalism should look at the degree requirements and start planning for future semesters. Journalism students are encouraged to look into elective credits in the Digital Media Department, as a way to broaden their skills in modern storytelling.

**Graduation Requirements:**
1. Completion of a minimum of 21 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Complete all communication classes with a C- or better
Communication

HIST 1700 American Civilization (3.0)
HIST 2700 US History to 1877 (3.0)
and
HIST 2710 US History since 1877 (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)

Complete the following:
PHIL 2050 Ethics and Values 3
HLTH 1100 Personal Health and Wellness (2.0)
or
PES 1097 Fitness for Life 2

Distribution Courses:
Biography 3
Physical Science 3
Additional Biology or Physical Science 3
Humanities (Any Foreign Language 202G/2020 course) 4
Fine Arts 3
COMM 2110 Interpersonal Communication (fulfills Social/Behavioral Science) 3

Discipline Core Requirements: 28 Credits
COMM 1000 Exploring the Communication Major (Must pass with a C- or better) 3
COMM 2300 Public Relations 3
COMM 3020 Communication Research Methods 3
COMM 3050 Theories of Communication and Culture 3
COMM 350R Special Topics in Communication 3
COMM 4930 Communication Capstone 3
COMM 431R Communication Executive Lecture Series 1

Choose one of the following two courses: 3
COMM 1020 Public Speaking (3.0)
COMM 1130 Writing for the Mass Media (3.0)

Choose one of the following two courses: 3
COMM 1050 Introduction to Speech Communication (3.0)
COMM 1500 Introduction to Mass Communication (3.0)

Choose one of the following two courses: 3
COMM 3000 Media Ethics (3.0)
COMM 3700 Free Expression in a Democratic Society (3.0)

Elective Requirements: 12 Credits
Complete 12 credits from one foreign language to include the 1010, 1020, and 2010 levels. 12

Emphasis Requirements: 18 Credits
COMM 1610 Reporting for the Mass Media 3
COMM 3100 Propaganda and Persuasion 3

Complete 6 credits from the following Media and Practice courses: 6
COMM 2790 Magazine Writing (3.0)
COMM 2100 The News Editing Process (3.0)
COMM 2560 Radio Production (3.0)
COMM 2250 Principles of Advertising (3.0)

---

DGM 2110 Digital Motion Picture Essentials (3.0)
DGM 2120 Web Essentials (3.0)

Complete 6 credits from the following Applied Theory and Research courses: 6
COMM 3150 Film Theory (3.0)
COMM 362G International Communication (3.0)
COMM 3660 Investigative Reporting (3.0)
COMM 3780 Mormon Cultural Studies (3.0)
COMM 3790 Case Studies in Journalism (3.0)

Emphasis Elective Requirements: 26 Credits
Complete 6 credits from the following: 6
COMM 3000 Media Ethics (3.0)
COMM 3130 The Culture of Nature and Technology (3.0)
COMM 3150 Film Theory (3.0)
COMM 319G Intercultural Communication Encounters (3.0)
COMM 332G Cross-Cultural Communications for International Business (3.0)
COMM 3410 Fundamentals of Mediation and Negotiation (3.0)
COMM 350R Special Topics in Communication (3.0)
COMM 3520 Public Relations Case Studies (3.0)
COMM 3530 Public Relations Writing (3.0)
COMM 3600 Mass Media Ethics and Law (3.0)
COMM 3660 Investigative Reporting (3.0)
COMM 3680 Advertising Media Planning (3.0)
COMM 3700 Free Expression in a Democratic Society (3.0)
COMM 3780 Mormon Cultural Studies (3.0)

Any courses 1000 or higher (10 credits must be upper division). 20

Graduation Requirements:
1. Completion of a minimum of 120 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Completion of COMM courses with a C- or higher.
7. Successful completion of at least one Global/Intercultural course.

Communication - Journalism Emphasis, B.A.

Careers:

Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; project management; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.
Communication

Related Careers
• Communications Teachers, Postsecondary
• Radio and Television Announcers
• Public Address System and Other Announcers
• Public Relations Specialists
• Writers and Authors

Communication - Journalism Emphasis, B.S.

Requirements
Students choosing a Communication degree with an emphasis in Journalism will have the opportunity to work with award-winning faculty and gain substantial amounts of hands-on experience. The program encourages students to get involved with The UVU Review, the student-produced campus news organization. The Review is an excellent way to build skills in print, broadcast, and web journalism. Course options for Journalism students range from introductory writing and reporting classes to advanced magazine writing, news editing, broadcast news, and long format video journalism. Students interested in a degree in Communication with an emphasis in Journalism should look at degree requirements and start planning for future semesters. Journalism students are encouraged to look into elective credits in the Digital Media Department, as a way to broaden their skills in modern storytelling.

Total Program Credits: 120

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (recommended for Social Science majors)</td>
<td>3</td>
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Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
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<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
</tbody>
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<thead>
<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
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Distribution Courses:

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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td></td>
<td>3</td>
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<tr>
<td>Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>COMM 2110</td>
<td>Interpersonal Communication (fulfills Social/ Behavioral Science)</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 28 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COMM 1000</td>
<td>Exploring the Communication Major (Must pass with a C- or better)</td>
<td>3</td>
</tr>
<tr>
<td>COMM 2300</td>
<td>Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>COMM 3020</td>
<td>Communication Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>COMM 3050</td>
<td>Theories of Communication and Culture</td>
<td>3</td>
</tr>
<tr>
<td>COMM 350R</td>
<td>Special Topics in Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 4930</td>
<td>Communication Capstone</td>
<td>3</td>
</tr>
<tr>
<td>COMM 431R</td>
<td>Communication Executive Lecture Series</td>
<td>1</td>
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Choose one of the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COMM 1020</td>
<td>Public Speaking (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 1130</td>
<td>Writing for the Mass Media (3.0)</td>
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</table>

Choose one of the following two courses:

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COMM 1050</td>
<td>Introduction to Speech Communication (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 1500</td>
<td>Introduction to Mass Communication (3.0)</td>
<td></td>
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</tbody>
</table>

Choose one of the following two courses:

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 3000</td>
<td>Media Ethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3700</td>
<td>Free Expression in a Democratic Society (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Elective Requirements: 13 Credits

Complete 13 credits of electives 1000 level or higher

Emphasis Requirements: 18 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COMM 1610</td>
<td>Reporting for the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM 3100</td>
<td>Propaganda and Persuasion</td>
<td>3</td>
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</table>

Complete 6 credits from the following Media and Practice courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COMM 2790</td>
<td>Magazine Writing (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 2100</td>
<td>The News Editing Process (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 2560</td>
<td>Radio Production (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 2250</td>
<td>Principles of Advertising (3.0)</td>
<td></td>
</tr>
<tr>
<td>DGM 2110</td>
<td>Digital Motion Picture Essentials (3.0)</td>
<td></td>
</tr>
<tr>
<td>DGM 2120</td>
<td>Web Essentials (3.0)</td>
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Complete 6 credits from the following Applied Theory and Research courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>COMM 3150</td>
<td>Film Theory (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 362G</td>
<td>International Communication (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3660</td>
<td>Investigative Reporting (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3780</td>
<td>Mormon Cultural Studies (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3790</td>
<td>Case Studies in Journalism (3.0)</td>
<td></td>
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Emphasis Elective Requirements: 26 Credits

Complete 6 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 3000</td>
<td>Media Ethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3130</td>
<td>The Culture of Nature and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3150</td>
<td>Film Theory (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 319G</td>
<td>Intercultural Communication Encounters (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 332G</td>
<td>Cross-Cultural Communications for International Business (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3410</td>
<td>Fundamentals of Mediation and Negotiation (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 350R</td>
<td>Special Topics in Communication (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3520</td>
<td>Public Relations Case Studies (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3530</td>
<td>Public Relations Writing (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3600</td>
<td>Mass Media Ethics and Law (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3660</td>
<td>Investigative Reporting (3.0)</td>
<td></td>
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</table>
Communication

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 3680</td>
<td>Advertising Media Planning</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 3700</td>
<td>Free Expression in a Democratic Society</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 3780</td>
<td>Mormon Cultural Studies</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>Any courses 1000 or higher (10 credits must be upper division).</td>
<td>20</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits.
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5. Completion of COMM courses with a C- or higher.
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Communication - Journalism Emphasis, B.S.

Careers:

- Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; project management; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills.
- Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

Communication - Public Relations Emphasis, B.A.

Requirements

Students seeking a degree in public relations from Utah Valley University will find themselves in a rigorous study of the ins and outs of public relations. The public relations emphasis provides students with dynamic in-class instruction as well as multiple options for real-world experience. Public Relations students learn the vital role that they can play in a vast array of professions, and learn the skills to do so by taking courses such as Public Relations Writing, and Case Studies in Public Relations. Public Relations students also have many opportunities for student involvement. In 2010 UVU became a charter member of PRSSA which opened several opportunities for our students both on campus and across the nation. In 2013, our PRSSA student organization won the "Chapter of the Year" at the Public Relations Society of America (PRSA) annual conference in Philadelphia, Pennsylvania. Students who are pursuing a career in Public Relations it is recommended that they take upper division (3000+) Business Management courses to prepare them for the corporate environment.

Total Program Credits: 120

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of COMM courses with a C- or higher.
6. Successful completion of at least one Global/Intercultural course.

Distribution Courses:

- Biology
- Physical Science
- Additional Biology or Physical Science
- Humanities (Any Foreign Language 202G/2020 course)
- Fine Arts

Discipline Core Requirements:

- COMM 1000 Exploring the Communication Major (Must pass with a C- or better) 3
- COMM 2300 Public Relations 3
- COMM 3020 Communication Research Methods 3
- COMM 3050 Theories of Communication and Culture 3
- COMM 359R Special Topics in Communication 3
- COMM 4930 Communication Capstone 3
- COMM 431R Communication Executive Lecture Series 1

Choose one of the following two courses:

- COMM 1020 Public Speaking 3
- COMM 1130 Writing for the Mass Media 3

Choose one of the following two courses:

- COMM 1050 Introduction to Speech Communication 3
- COMM 1500 Introduction to Mass Communication 3

Choose one of the following two courses:

- COMM 3000 Media Ethics 3
- COMM 3700 Free Expression in a Democratic Society 3

Elective Requirements: 12 Credits

- Complete 12 credits from one foreign language to include the 1010, 1020, and 2010 levels. 12

Emphasis Requirements: 24 Credits

- COMM 2510 Visual Strategies for Communication Majors 3
- COMM 3520 Public Relations Case Studies 3
- COMM 3530 Public Relations Writing 3
- COMM 481R Internship 3
- COMM 4850 Public Relations Campaigns 3

Complete 9 COMM credits (6 must be upper division) 9

Emphasis Elective Requirements: 20 Credits

- PHYS 1010, 1020, and 2010 levels. 6
- PHIL 2050 Ethics and Values 3
- HIST 1700 American Civilization 3
- HIST 1740 US Economic History 3
- HIST 1770 US History to 1877 3
- HIST 2710 US History since 1877 3
- POLS 1000 American Heritage 3
- POLS 1100 American National Government 3
- All courses 1000 or higher (10 credits must be upper division). 20

1. Completion of a minimum of 120 or more semester credits.
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3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
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Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
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Communication - Public Relations Emphasis, B.A.

Requirements

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Distribution Courses:

- Biology
- Physical Science
- Additional Biology or Physical Science
- Humanities (Any Foreign Language 202G/2020 course)
- Fine Arts

Discipline Core Requirements:

- COMM 1000 Exploring the Communication Major (Must pass with a C- or better) 3
- COMM 2300 Public Relations 3
- COMM 3020 Communication Research Methods 3
- COMM 3050 Theories of Communication and Culture 3
- COMM 359R Special Topics in Communication 3
- COMM 4930 Communication Capstone 3
- COMM 431R Communication Executive Lecture Series 1

Choose one of the following two courses:

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- COMM 1130 Writing for the Mass Media 3

Choose one of the following two courses:

- COMM 1050 Introduction to Speech Communication 3
- COMM 1500 Introduction to Mass Communication 3

Choose one of the following two courses:

- COMM 3000 Media Ethics 3
- COMM 3700 Free Expression in a Democratic Society 3

Elective Requirements: 12 Credits

- Complete 12 credits from one foreign language to include the 1010, 1020, and 2010 levels. 12

Emphasis Requirements: 24 Credits

- COMM 2510 Visual Strategies for Communication Majors 3
- COMM 3520 Public Relations Case Studies 3
- COMM 3530 Public Relations Writing 3
- COMM 481R Internship 3
- COMM 4850 Public Relations Campaigns 3

Complete 9 COMM credits (6 must be upper division) 9

Emphasis Elective Requirements: 20 Credits

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- HIST 1700 American Civilization 3
- HIST 1740 US Economic History 3
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- POLS 1000 American Heritage 3
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Communication

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• Writers and Authors

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5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Completion of COMM courses with a C- or higher.
7. Successful completion of at least one Global/Intercultural course.

Distribution Courses:

Biology 3
Physical Science 3
Additional Biology or Physical Science 3
Humanities 3
Fine Arts 3

Comm 2110 Interpersonal Communication (fulfills Social/Behavioral Science) 3

Choose one of the following two courses:

Comm 1000 Exploring the Communication Major (Must pass with a C- or better) 3
Comm 2300 Public Relations 3
Comm 3020 Communication Research Methods 3
Comm 3050 Theories of Communication and Culture 3
Comm 350R Special Topics in Communication 3
Comm 4930 Communication Capstone 3
Comm 431R Communication Executive Lecture Series 1

Elective Requirements: 13 Credits

Complete electives 1000 level or higher

Emphasis Requirements: 24 Credits

Comm 2510 Visual Strategies for Communication Majors 3
Comm 3520 Public Relations Case Studies 3
Comm 3530 Public Relations Writing 3
Comm 481R Internship 3
Comm 4850 Public Relations Campaigns 3

Complete 9 COMM credits (6 must be upper division)

Emphasis Elective Requirements: 20 Credits

Any courses 1000 or higher (10 credits must be upper division). 20

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Communication

1. Completion of a minimum of 120 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
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Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

Communication - Speech Communication Emphasis, B.A.

Requirements

Speech Communication is the study of how we communicate face-to-face in a variety of situations. Students in this field are interested in the dynamics of conversations, the common pitfalls and how to avoid them, and how to make the most out of human interaction. Speech Communication practitioners feel confident in interpersonal exchanges, public speaking, small-group discussion, and specialized fields like argumentation and/or mediation and negotiation. Every industry needs people that can communicate effectively. Graduates often find use for their skills in professions like sales, corporate training and development, human resources, and various social services. Many students choose Speech Communication as a bachelor's degree program that will prepare them for law school and other graduate school work. For their upper division elective coursework, Speech Communication students are encouraged to take classes in Business Management and/or Behavioral Science (Psychology, Sociology, etc.).

Total Program Credits: 120

Complete the following:

<table>
<thead>
<tr>
<th>course</th>
<th>title</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>PES 1097</td>
<td>Fitness for Life</td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>course</th>
<th>title</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities (Any Foreign Language 202G/2020 course)</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>COMM 2110</td>
<td>Interpersonal Communication (fulfills Social/Behavioral Science)</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements:

<table>
<thead>
<tr>
<th>course</th>
<th>title</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1000</td>
<td>Exploring the Communication Major (Must pass with a C- or better)</td>
<td>3</td>
</tr>
<tr>
<td>COMM 2300</td>
<td>Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>COMM 3020</td>
<td>Communication Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>COMM 3050</td>
<td>Theories of Communication and Culture</td>
<td>3</td>
</tr>
<tr>
<td>COMM 350R</td>
<td>Special Topics in Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 4930</td>
<td>Communication Capstone</td>
<td>3</td>
</tr>
<tr>
<td>COMM 431R</td>
<td>Communication Executive Lecture Series</td>
<td>1</td>
</tr>
</tbody>
</table>

Choose one of the following two courses:

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<tbody>
<tr>
<td>COMM 1020</td>
<td>Public Speaking (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>COMM 1130</td>
<td>Writing for the Mass Media (3.0)</td>
<td>3</td>
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<tbody>
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<td>Introduction to Speech Communication (3.0)</td>
<td>3</td>
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</tr>
<tr>
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<thead>
<tr>
<th>course</th>
<th>title</th>
<th>credits</th>
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</thead>
<tbody>
<tr>
<td>Complete 12 credits from one foreign language to include the 1010, 1020, and 2010 levels.</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Emphasis Requirements:

<table>
<thead>
<tr>
<th>course</th>
<th>title</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 319G</td>
<td>Intercultural Communication Encounters</td>
<td>3</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>course</th>
<th>title</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 2120</td>
<td>Small Group Communication and Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>COMM 2400</td>
<td>Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 2115</td>
<td>Introduction to Health Communication (3.0)</td>
<td>3</td>
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</tbody>
</table>

Choose one of the following research classes:

<table>
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<tr>
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<td>Interpersonal Communication Theory &amp; Research (3.0)</td>
<td>3</td>
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<td>COMM 4120</td>
<td>Group Communication (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>COMM 4180</td>
<td>Communication and Social Behavior (3.0)</td>
<td>3</td>
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</table>

Choose one of the following applied courses:

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<tr>
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<tr>
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<td>Advanced Health Communication (3.0)</td>
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</table>

Distribution Courses:

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Biography</td>
<td></td>
<td>3</td>
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<tr>
<td>Physical Science</td>
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<td>Small Group Communication and Decision Making</td>
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<tr>
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<td>3</td>
</tr>
<tr>
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Choose one of the following research classes:

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<tbody>
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<tr>
<td>COMM 4115</td>
<td>Advanced Health Communication (3.0)</td>
<td>3</td>
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</table>
Communication

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 2020/2020 levels or transferred equivalents.
6. Completion of COMM courses with a C- or higher.
7. Successful completion of at least one Global/Intercultural course.

Communication - Speech Communication Emphasis, B.A.

Careers

Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; project management; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

Communication - Speech Communication Emphasis, B.S.

Requirements

Speech Communication is the study of how we communicate face-to-face in a variety of situations. Students in this field are interested in the dynamics of conversations, the common pitfalls and how to avoid them, and how to make the most out of human interaction. Speech Communication practitioners feel confident in interpersonal exchanges, public speaking, small-group discussion, and specialized fields like argumentation and/or mediation and negotiation. Every industry needs people that can communicate effectively. Graduates often find use for their skills in professions like sales, corporate training and development, human resources, and various social services. Many students choose Speech Communication as a bachelor's degree program that will prepare them for law school and other graduate school work. For their upper division elective coursework, Speech Communication students are encouraged to take classes in Business Management and/or Behavioral Science (Psychology, Sociology, etc.).

Total Program Credits: 120

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing–Humanities/Social Sciences</td>
<td>3.0</td>
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<tr>
<td>or</td>
<td>ENGL 2020</td>
<td></td>
</tr>
<tr>
<td>2020</td>
<td>Intermediate Writing–Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (recommended for Social Science majors)</td>
<td>3</td>
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Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
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</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and</td>
<td>HIST 2710</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following:
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<td>or PES 1097</td>
<td>Fitness for Life</td>
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</table>

**Distribution Courses:**

- Biology: 3
- Physical Science: 3
- Additional Biology or Physical Science: 3
- Humanities: 3
- Fine Arts: 3
- COMM 2110 Interpersonal Communication (fulfills Social/Behavioral Science): 3

**Discipline Core Requirements:** 28 Credits

- COMM 1000 Exploring the Communication Major (Must pass with a C- or better): 3
- COMM 2300 Public Relations: 3
- COMM 3020 Communication Research Methods: 3
- COMM 3050 Theories of Communication and Culture: 3
- COMM 350R Special Topics in Communication: 3
- COMM 4930 Communication Capstone: 3
- COMM 431R Communication Executive Lecture Series: 1

Choose one of the following two courses: 3

- COMM 1020 Public Speaking (3.0)
- COMM 1130 Writing for the Mass Media (3.0)

Choose one of the following two courses: 3

- COMM 1050 Introduction to Speech Communication (3.0)
- COMM 1500 Introduction to Mass Communication (3.0)

Choose one of the following two courses: 3

- COMM 3000 Media Ethics (3.0)
- COMM 3700 Free Expression in a Democratic Society (3.0)

**Elective Requirements:** 13 Credits

- Complete 13 credits of electives 1000 level or higher: 13

**Emphasis Requirements:** 24 Credits

- COMM 319G Intercultural Communication Encounters: 3

Choose two of the following: 6

- COMM 2115 Introduction to Health Communication (3.0)
- COMM 2120 Small Group Communication and Decision Making
- COMM 2400 Organizational Communication

Choose one of the following research classes: 3

- COMM 4110 Interpersonal Communication Theory & Research (3.0)
- COMM 4120 Group Communication (3.0)
- COMM 4180 Communication and Social Behavior (3.0)

Choose one of the following applied courses: 3

- COMM 401G Communication Education (3.0)
- COMM 4115 Advanced Health Communication (3.0)
- COMM 4170 Contemporary Issues in Organizational Communication (3.0)

Choose 3 credits from the following lower division electives: 3

- COMM 128R Forensics (3.0)
- COMM 207G Introduction to Gender and Communication (3.0)
- COMM 2115 Introduction to Health Communication (If not already taken) (3.0)
- COMM 2120 Small Group Communication and Decision Making (If not already taken) (3.0)
- COMM 2270 Argumentation (3.0)
- COMM 2400 Organizational Communication (If not already taken) (3.0)
- COMM 2510 Visual Strategies for Communication Majors (3.0)
- COMM 281R Internship (1.0)
- COMM 290C Independent Study (3.0)

Choose 6 credits from the following upper division communication courses: 6

- COMM 3000 Media Ethics (3.0)
- COMM 332G Cross-Cultural Communications for International Business (3.0)
- COMM 3410 Fundamentals of Mediation and Negotiation (3.0)
- COMM 3420 Communication and Conflict (3.0)
- COMM 350R Special Topics in Communication (3.0)
- COMM 3700 Free Expression in a Democratic Society (3.0)
- COMM 3780 Mormon Cultural Studies (3.0)
- COMM 4250 Communication and Leadership (3.0)
- COMM 4110 Interpersonal Communication Theory & Research (If not used for research requirement) (3.0)
- COMM 4120 Group Communication (If not used for research requirement) (3.0)
- COMM 4180 Communication and Social Behavior (If not used for research requirement) (3.0)
- COMM 401G Communication Education (If not used for applied requirement) (3.0)
- COMM 4115 Advanced Health Communication (If not used for applied requirement) (3.0)
- COMM 4170 Contemporary Issues in Organizational Communication (If not used for applied requirement) (3.0)
- COMM 481R Internship (1.0)

**Emphasis Elective Requirements:** 20 Credits

- Any courses 1000 or higher (10 credits must be upper division): 20

**Graduation Requirements:**

1. Completion of a minimum of 120 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
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Communication - Speech Communication Emphasis, B.S.

Careers

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Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors
Computer Science

Name: Computer Science
Location: CS 520
Telephone: 801-863-8079
Email: ComputerScience@uvu.edu
Web Address: uvu.edu/cs
Chair: Neil Harrison

Mission Statement
The mission of the Computer Science program at Utah Valley University is to qualify students to function as professional computer scientists, computer engineers, and software engineers in the workplace, and to enter appropriate graduate programs. Graduates will be committed to lifelong learning and empowered with the intellectual and ethical foundations necessary to make responsible decisions.

Computer Science

Advisors:
- Patti Miner
  - Telephone: 801-863-8408
  - Email: minerpa@uvu.edu
- Fred Orchard
  - Telephone: 801-863-6238
  - Email: fred.orchard@uvu.edu

Coordinators:
- Computer Science - Computer Science Emphasis:
  - Todd Peterson
    - Email: ToddP@uvu.edu
- Computer Science - Computer Networking Emphasis:
  - David Heldenbrand
    - Email: heldenda@uvu.edu
- Software Engineering:
  - Neil Harrison
    - Email: neil.harrison@uvu.edu
- Electrical & Computer Engineering:
  - Afsaneh Miniaie
    - Email: miniaa@uvu.edu

Three four-year bachelor degrees are offered: Computer Science, Software Engineering, and Computer Engineering. The Computer Science degree (BS-CS) is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) and offers two areas of emphasis: Computer Science and Computer Networking. The Computer Science degree conforms to the Association of Computing Machinery (ACM) and Institute of Electrical and Electronics Engineering (IEEE) joint model curriculum; the Software Engineering degree conforms to the IEEE Computer Society’s Software Engineering Body of Knowledge; and the Computer Engineering degree conforms to the IEEE Computer Society’s Computer Engineering Body of Knowledge.

Note: Students may earn only one BS Degree in Computer Science or Software Engineering. Additional degrees will not be awarded for completing subsequent BS-CS areas of emphasis.

Requirements for Certificate of Completion (Programmer), Associate in Science in Computer Science (AS-CS) and Associate in Applied Science in Computer Science (AAS-CS) with emphasis in Computer Engineering and in Computing and Networking Sciences degrees are included within the BS degree requirements. Students majoring in Computer Science degrees are encouraged to review these degrees and apply for them when they have met the requirements.

Classroom instruction is supported by well-equipped computer labs.

Career Opportunities
Degrees offered by the Computer Science Department prepare students for rewarding career opportunities in many different fields. Occupations available to graduates of our programs are consistently listed as among the highest paid and most in demand, and the long-term employment outlook is currently excellent.

Internships
Computer Science is committed to adequately preparing students for their intended career path. Thus, they encourage internship opportunities that provide students with applied knowledge to complement the theory learned in the classroom, and also enhances their resumes and marketability upon graduation.

DEPARTMENT CHAIR
HARRISON, Neil B. Associate Professor

FACULTY
AL-GHAIB, Huda Assistant Professor
ALLISON, Charles Professor
CHRIST, Beau Assistant Professor
DEBRY, Roger K. Professor
DURNEY, Brian Associate Professor
FAIRCLOUGH, Dennis Professor
GANESAN, Kavita Assistant Professor
HARRISON, Neil B. Associate Professor
HELDENBRAND, David Professor
KAMALI-SARVESTANI, Reza Assistant Professor
MINAIE, Afsaneh Professor
OH, Cheolhwan Associate Professor
OLSON, Keith Professor
PETERSON, Todd Associate Professor
SANATI-MEHRIZY, Reza Professor
STANLEY, Timothy Lecturer
TANG, Jingpeng Associate Professor
WELBORN, Curtis Associate Professor

Course Descriptions
Computer Science............................................................... 573
Electrical and Computer Engineering........................................... 596

Degrees & Programs

Computer Science - Computer Engineering Emphasis, A.A.S.

Requirements
The program introduces the student to a wide range of computer systems hardware, software, device drivers and peripheral devices.

Total Program Credits: 64

General Education Requirements: 13 Credits

<table>
<thead>
<tr>
<th>Requirement Description</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>A minimum of 16 credits of General Education requirements are required for graduation. Not all GE requirements are listed in this section (see Specialty Core requirements for more details).</td>
<td>13 Credits</td>
</tr>
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</table>
ENGL 1010 Introduction to Writing 3
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE (COMM 1020 recommended) 3
COMM 2110 Interpersonal Communication * 3
BIOLOGY 3
or PHYS 2210 Physics for Scientists and Engineers I (4.0) *

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT (HLTH 1100 or PES 1097 Recommended) 1

Discipline Core Requirements: 9 Credits

Complete the following:

CS 1400 Fundamentals of Programming * 3
CS 2600 Computer Networks I * 3
CS 2810 Computer Organization and Architecture * 3

Emphasis Requirements: 26 Credits

Complete the following (minimum grade of C- required):

ECE 1020 Computer Engineering Problem Solving with MATLAB and LabVIEW 1
ECE 2250 Circuit Theory 3
ECE 2255 Circuit Theory Lab 1
ECE 2700 Digital Design I 3
ECE 3740 Digital Design II 3
IT 1510 Introduction to System Administration–Linux/UNIX 3
MATH 1210 Calculus I (fulfills GE requirement) 5
CS 1410 Object-Oriented Programming 3
CS 2420 Introduction to Algorithms and Data Structures 3
ECE 2705 Digital Design I Lab 1

Emphasis Elective Requirements: 16 Credits

Complete 16 credits from the following courses (minimum grade of C- required). (Must be approved by CSE Department. See CSE Advisor):

CS 2300 Discrete Mathematical Structures I (3.0)
CS 2450 Software Engineering (3.0)
CS 2550 Web Programming I (3.0)
CS 3060 Operating Systems Theory (3.0)
CS 3520 Database Theory (3.0)
ECE 3750 Engineering Analysis (3.0)
ECE 3770 Signals and Systems (3.0)
ECE 4730 Embedded Systems II (3.0)
ECE 4750 Digital Signal Processing (3.0)
ECE 3760 Electronic Systems (3.0)
ECE 3765 Electronic Systems Lab (1.0)
MATH 1220 Calculus II (5.0)
PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)

Graduation Requirements:

1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.

Footnote:
* Minimum grade of C- required

Computer Science - Computer Engineering Emphasis, A.A.S.

Careers

Students will be able to compete for entry level programming jobs, but should make this degree as part of the Bachelor’s program in order to receive the greatest potential from the degree.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Information Security Analysts
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Computer Science - Computing and Networking Sciences Emphasis, A.A.S.

Requirements

The program introduces the student to a wide range of networking and data communications technologies and entry level programming.

Total Program Credits: 64

General Education Requirements: 13 Credits

A minimum of 16 credits of General Education requirements are required for graduation. Not all GE requirements are listed in this section (see Specialty Core requirements for more details).

ENGL 1010 Introduction to Writing 3
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE (COMM 1020 recommended) 3
COMM 2110 Interpersonal Communication * 3
BIOLOGY 3
or PHYS 2210 Physics for Scientists and Engineers I (4.0) *

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT (HLTH 1100 or PES 1097 Recommended) 1

Discipline Core Requirements: 9 Credits

Complete the following:

CS 1400 Fundamentals of Programming * 3
CS 2600 Computer Networks I * 3
CS 2810 Computer Organization and Architecture * 3

Emphasis Requirements: 42 Credits

Complete the following:

CS 1410 Object-Oriented Programming 3
CS 2300 Discrete Mathematical Structures I 3
CS 2420 Introduction to Algorithms and Data Structures 3
CS 2690 Computer Networks II 3
CS 3060 Operating Systems Theory 3
Computer Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3250</td>
<td>Java Software Development</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CS 3260 C# Software Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 3520</td>
<td>Database Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1060</td>
<td>Trigonometry (fulfills GE requirement)</td>
<td>3</td>
</tr>
</tbody>
</table>

Emphasis Elective Requirements: 18 Credits

Complete 18 credits from the following courses (minimum grade of C- required). (Must be approved by CSE Department. See CSE Advisor):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1030</td>
<td>Foundations of Computer Science (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 2250</td>
<td>Java Programming (3.0)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>CS 3250 Java Software Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 2370</td>
<td>C-plus-plus Programming (3.0)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>CS 3370 C-plus-plus Software Development</td>
<td></td>
</tr>
<tr>
<td>CS 2450</td>
<td>Software Engineering (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 2550</td>
<td>Web Programming I (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 281R</td>
<td>Internship (3.0 credits max.) (1.0)</td>
<td></td>
</tr>
<tr>
<td>CS 3260</td>
<td>C# Software Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 3410</td>
<td>Human Factors in Software Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 3660</td>
<td>Web Programming II (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 3670</td>
<td>Network Programming (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 4470</td>
<td>Artificial Intelligence (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 4610</td>
<td>TCP/IP Internet Architecture (3.0)</td>
<td></td>
</tr>
<tr>
<td>ECE 2700</td>
<td>Digital Design I (3.0)</td>
<td></td>
</tr>
<tr>
<td>and</td>
<td>ECE 2705 Digital Design I Lab (1.0)</td>
<td></td>
</tr>
<tr>
<td>ECE 3750</td>
<td>Engineering Analysis (3.0)</td>
<td></td>
</tr>
<tr>
<td>IT 1510</td>
<td>Introduction to System Administration--Linux/UNIX (3.0)</td>
<td></td>
</tr>
<tr>
<td>IT 3510</td>
<td>Advanced System Administration--Linux/UNIX (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1210</td>
<td>Calculus I (5.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1220</td>
<td>Calculus II (5.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 2215</td>
<td>Physics for Scientists and Engineers I Lab (1.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.

Footnote:

* Minimum grade of C- required

Computer Science - Computing and Networking Sciences Emphasis, A.A.S.

Careers

Students will be able to compete for entry level programming jobs, but should make this degree as part of the Bachelor’s program in order to receive the greatest potential from the degree.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Information Security Analysts
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Computer Science, A.S.

Requirements

The CS Associate degree is a transfer degree used when a student is contemplating changing schools. Because it includes all general education classes, attempting to earn this degree four semesters will necessarily lengthen the time to earn a BS degree.

Total Program Credits: 64

General Education Requirements: 39 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>PES 1097 Fitness for Life (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

Distribution Courses

Humanities:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COMM 1020</td>
<td>Public Speaking</td>
<td>3</td>
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</table>

Social Science:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 2110</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
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</table>

Physical Science:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2210</td>
<td>Physics for Scientists and Engineers I *</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2215</td>
<td>Physics for Scientists and Engineers I Lab *</td>
<td>1</td>
</tr>
</tbody>
</table>

Additional Physical Science:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2220</td>
<td>Physics for Scientists and Engineers II *</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2225</td>
<td>Physics for Scientists and Engineers II Lab *</td>
<td>1</td>
</tr>
</tbody>
</table>

Additional Distribution Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
<td></td>
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</tbody>
</table>
Discipline Core Requirements: 25 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1400</td>
<td>Fundamentals of Programming *</td>
<td>3</td>
</tr>
<tr>
<td>CS 1410</td>
<td>Object-Oriented Programming *</td>
<td>3</td>
</tr>
<tr>
<td>CS 2300</td>
<td>Discrete Mathematical Structures I *</td>
<td>3</td>
</tr>
<tr>
<td>CS 2420</td>
<td>Introduction to Algorithms and Data Structures *</td>
<td>3</td>
</tr>
<tr>
<td>CS 2810</td>
<td>Computer Organization and Architecture *</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1210</td>
<td>Calculus I *</td>
<td>5</td>
</tr>
<tr>
<td>MATH 1220</td>
<td>Calculus II *</td>
<td>5</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade lower than a C- in Discipline Core courses.
3. Residency hours – minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Footnote

*Minimum grade of C- required

Computer Science, A.S.

Careers
The programming skills learned in this degree will be suitable to do low level programming (phone apps, webpage development, and some larger applications).

Related Careers
- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Information Security Analysts
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Programmer, Certificate of Completion

Requirements
The program introduces the students to basic, entry level programming.

Total Program Credits: 30

Discipline Core Requirements: 24 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1400</td>
<td>Fundamentals of Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 1410</td>
<td>Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 2420</td>
<td>Introduction to Algorithms and Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 2810</td>
<td>Computer Organization and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1210</td>
<td>Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 1220</td>
<td>Calculus II</td>
<td>5</td>
</tr>
</tbody>
</table>

Elective Requirements: 6 Credits

Choose 6 credits from the following courses (Must be approved by CNS Department. See CNS advisor):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 2250</td>
<td>Java Programming</td>
<td>3.0</td>
</tr>
<tr>
<td>CS 3250</td>
<td>Java Software Development</td>
<td>3.0</td>
</tr>
<tr>
<td>CS 2370</td>
<td>C-plus-plus Programming</td>
<td>3.0</td>
</tr>
<tr>
<td>CS 3370</td>
<td>C-plus-plus Software Development</td>
<td>3.0</td>
</tr>
<tr>
<td>CS 239R</td>
<td>Current Topics in Computer Science</td>
<td>1.0</td>
</tr>
<tr>
<td>CS 2550</td>
<td>Web Programming I</td>
<td>3.0</td>
</tr>
<tr>
<td>CS 3060</td>
<td>Operating Systems Theory</td>
<td>3.0</td>
</tr>
<tr>
<td>CS 3260</td>
<td>CsharpNET Software Development</td>
<td>3.0</td>
</tr>
<tr>
<td>CS 3520</td>
<td>Database Theory</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 30 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours – minimum of 10 credit hours through course attendance at UVU.

Computer Science, Minor

Careers
Simple, entry level jobs can be attained with this degree, but student should consider the Bachelor’s degree to receive the greatest potential.

Related Careers
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Science Teachers, Postsecondary

Computer Science, Minor

Requirements
The program provides the student with entry level programming instruction, and an overview of some portions of the program.

Total Program Credits: 18

Discipline Core Requirements: 9 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1400</td>
<td>Fundamentals of Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 1410</td>
<td>Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 2420</td>
<td>Introduction to Algorithms and Data Structures</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 9 Credits

Complete at least three CS courses numbered 3060 or above

Graduation Requirements:
1. To fill the requirements for a computer science minor students must have no course grade lower than C- in any of the CNS courses required for the computer science minor

Computer Science, Minor

Careers
Students who work in organizations that use or develop software will have an appreciation for that skill set which will aid them in their own career development.

Related Careers
- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Information Security Analysts
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Computer Engineering, B.S.

Requirements
Computer Engineering encompasses the science and technology of design, construction, implementation, testing, and maintenance of integrated software and hardware components of modern computing systems and computer-controlled equipment (cell phones, video games, laptops).

Total Program Credits: 126

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>39 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020 Intermediate Writing–Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

American Institutions: Complete one of the following:

- HIST 2700 US History to 1877 (3.0) 3
- HIST 2710 US History since 1877 (3.0) 3
- HIST 1700 American Civilization (3.0) 3
- HIST 1740 US Economic History (3.0) 3
- POLS 1000 American Heritage (3.0) 3
- POLS 1100 American National Government (3.0) 3

Complete the following:

- PHIL 2050 Ethics and Values 3
- HLTH 1100 Personal Health and Wellness 2
- or PES 1097 Fitness for Life (2.0) 1

Distribution Courses:

- COMM 1020 Public Speaking 3
- COMM 2110 Interpersonal Communication 3
- Fine Arts (Choose from list) 3
- Biology (Choose from list) 3
- MATH 1210 Calculus I 5
- PHYS 2210 Physics for Scientists and Engineers I 4
- CHEM 1210 Principles of Chemistry I 4

Discipline Core Requirements: 84 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 2810</td>
<td>Computer Organization and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CS 305G</td>
<td>Global Social and Ethical Issues in Computing</td>
<td>3</td>
</tr>
<tr>
<td>CS 3060</td>
<td>Operating Systems Theory</td>
<td>3</td>
</tr>
<tr>
<td>CS 4380</td>
<td>Advanced/High-Performance Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COMP 301R</td>
<td>Digital Lecture Series</td>
<td>1</td>
</tr>
<tr>
<td>ECE 1020</td>
<td>Computer Engineering Problem Solving with MATLAB and LabVIEW</td>
<td>1</td>
</tr>
<tr>
<td>ECE 2700</td>
<td>Digital Design I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 2250</td>
<td>Circuit Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECE 2705</td>
<td>Digital Design I Lab</td>
<td>1</td>
</tr>
<tr>
<td>ECE 2255</td>
<td>Circuit Theory Lab</td>
<td>1</td>
</tr>
<tr>
<td>ECE 3710</td>
<td>Applied Probability and Statistics for Engineers and Scientists</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3730</td>
<td>Embedded Systems I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3740</td>
<td>Digital Design II</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3750</td>
<td>Engineering Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3760</td>
<td>Electronic Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3765</td>
<td>Electronic Systems Lab</td>
<td>1</td>
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<tr>
<td>ECE 3770</td>
<td>Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECE 4730</td>
<td>Embedded Systems II</td>
<td>3</td>
</tr>
<tr>
<td>ECE 4750</td>
<td>Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>ECE 4760</td>
<td>VLSI Design</td>
<td>3</td>
</tr>
<tr>
<td>ECE 4800</td>
<td>Computer Engineering Senior Design Project</td>
<td>3</td>
</tr>
<tr>
<td>ECE 4765</td>
<td>VLSI Design Laboratory</td>
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</tr>
<tr>
<td>PHYS 2225</td>
<td>Physics for Scientists and Engineers II Lab</td>
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<td>PHYS 2215</td>
<td>Physics for Scientists and Engineers I Lab</td>
<td>1</td>
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<td>PHYS 2220</td>
<td>Physics for Scientists and Engineers II</td>
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<td>CHEM 1215</td>
<td>Principles of Chemistry I Laboratory</td>
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<tr>
<td>MATH 1220</td>
<td>Calculus II</td>
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</tbody>
</table>

Elective Requirements: 3 Credits

- ECE 4770 Artificial Neural Networks 3
- ECE 4780 Wireless and Mobile Communications (3.0) 3

Graduation Requirements:
1. Completion of a minimum of 126 semester credits, with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.5 or above, with a minimum grade of C- in all discipline core and elective requirements.
3. Residency hours - minimum of 30 credit hours through course attendance at UVU. 10 of these hours must be within the last 45 hours earned. At least 12 of the credit hours earned in residence must be in approved CS + ECE courses.
4. All transfer credit must be approved in writing by UVU.
5. No more than 80 semester hours and no more than 20 hours in CS and ECE courses of transfer credit.
6. No more than 6 semester hours may be earned through independent study.
7. Successful completion of at least one Global/Intercultural course.

Computer Engineering, B.S.

Careers
Computer Engineering is one of the fastest growing fields anywhere, and continues to be one of the most marketable degrees offering some of the best salaries.
Related Careers

- Architectural and Engineering Managers
- Computer Hardware Engineers
- Engineering Teachers, Postsecondary

Computer Science - Computer Networking Emphasis, B.S.

Requirements

The Networking specialization in the Computer Science degree program is designed to prepare students with strong internet-related programming and/or engineering skills. In addition to core Computer Science courses, it requires in-depth courses in network and Internet operations as well as extensive experience in web and network software development.

Total Program Credits: 120

Matriculation Requirements:

1. Completion of CS 1400, CS 1410, CS 2300, and CS 2420 with a grade of C+ better.
2. Completion of MATH 1210 and ENGL 1010 with a grade of C or better.
3. Overall GPA of 2.5 or higher.

General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
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<td>ENGL 2020</td>
<td>Intermediate Writing–Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1210</td>
<td>Calculus I *</td>
<td>5</td>
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</table>

American Institutions: Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HIST 2700</td>
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</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
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Complete the following:

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
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</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
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</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>COMM 1020</td>
<td>Public Speaking *</td>
<td>3</td>
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<tr>
<td>COMM 2110</td>
<td>Interpersonal Communication *</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>(choose from list)</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td>(choose from list)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2210</td>
<td>Physics for Scientists and Engineers I *</td>
<td>4</td>
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</table>

Discipline Core Requirements: 48 Credits

Complete one of the following course/lab combinations: 5

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1610</td>
<td>College Biology I (4.0)</td>
<td></td>
</tr>
<tr>
<td>and BIOL 1615</td>
<td>College Biology I Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>or CHEM 1210</td>
<td>Principles of Chemistry I (4.0)</td>
<td></td>
</tr>
<tr>
<td>and CHEM 1215</td>
<td>Principles of Chemistry I Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>or PHYS 2020</td>
<td>College Physics II (4.0)</td>
<td></td>
</tr>
<tr>
<td>and PHYS 2025</td>
<td>College Physics II Lab (1.0)</td>
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<tr>
<td>or PHYS 2220</td>
<td>Physics for Scientists and Engineers II (4.0)</td>
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<tr>
<td>and PHYS 2225</td>
<td>Physics for Scientists and Engineers II Lab (1.0)</td>
<td></td>
</tr>
<tr>
<td>or GEO 1010</td>
<td>Introduction to Geology (3.0)</td>
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</tr>
<tr>
<td>and GEO 1015</td>
<td>Introduction to Geology Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>and GEO 202R</td>
<td>Science Excursion (1.0)</td>
<td></td>
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Minimum grade of C- required in these courses.

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<td>COMP 301R</td>
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<tr>
<td>CS 1400</td>
<td>Fundamentals of Programming</td>
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<td>CS 1410</td>
<td>Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 2300</td>
<td>Discrete Mathematical Structures I</td>
<td>3</td>
</tr>
<tr>
<td>CS 2420</td>
<td>Introduction to Algorithms and Data Structures</td>
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<tr>
<td>CS 2550</td>
<td>Web Programming I</td>
<td>3</td>
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<tr>
<td>CS 2600</td>
<td>Computer Networks I</td>
<td>3</td>
</tr>
<tr>
<td>CS 2690</td>
<td>Computer Networks II</td>
<td>3</td>
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<tr>
<td>CS 2810</td>
<td>Computer Organization and Architecture</td>
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</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>CS 305G</td>
<td>Global Social and Ethical Issues in Computing</td>
<td>3</td>
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<tr>
<td>CS 3060</td>
<td>Operating Systems Theory</td>
<td>3</td>
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<tr>
<td>CS 3240</td>
<td>Discrete Mathematical Structures II</td>
<td>3</td>
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<tr>
<td>CS 3320</td>
<td>Numerical Software Development</td>
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</tr>
<tr>
<td>CS 3520</td>
<td>Database Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3710</td>
<td>Applied Probability and Statistics for Engineers and Scientists</td>
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**Emphasis Requirements:** 27 Credits

Minimum grade of C- required in these courses:

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<td>Software Engineering</td>
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<tr>
<td>CS 3250</td>
<td>Java Software Development</td>
<td>3</td>
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<tr>
<td>CS 3660</td>
<td>Web Programming II</td>
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<tr>
<td>CS 3670</td>
<td>Network Programming</td>
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</tr>
<tr>
<td>CS 4610</td>
<td>TCP/IP Internet Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CS 4670</td>
<td>Undergraduate Research Project for Networking Specialization</td>
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<td>CS 4690</td>
<td>Distributed Internet Application Development</td>
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<tr>
<td>IT 1510</td>
<td>Introduction to System Administration--Linux/UNIX</td>
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</tr>
<tr>
<td>IT 3510</td>
<td>Advanced System Administration--Linux/UNIX</td>
<td>3</td>
</tr>
</tbody>
</table>

**Emphasis Elective Requirements:** 9 Credits

Complete 9 credits from the following or any CS 3000 or 4000 level course not already required. A minimum grade of C- is required in these courses:

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CS 3370</td>
<td>C-plus-plus Software Development (3.0)</td>
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<td>CS 3540</td>
<td>Game Programming (3.0)</td>
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<tr>
<td>CS 3680</td>
<td>Mobile Device Programming (3.0)</td>
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<tr>
<td>CS 479R</td>
<td>Advanced Current Topics in Computer Science (1.0)</td>
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</tr>
<tr>
<td>ECE 2700</td>
<td>Digital Design I (3.0)</td>
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<tr>
<td>ECE 2705</td>
<td>Digital Design I Lab (1.0)</td>
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</tr>
<tr>
<td>ECE 4780</td>
<td>Wireless and Mobile Communications (3.0)</td>
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<tr>
<td>IT 2400</td>
<td>Voice and Data Cabling Fundamentals (3.0)</td>
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<td>IT 2700</td>
<td>Information Security Fundamentals (3.0)</td>
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<tr>
<td>IT 2800</td>
<td>Computer Forensic Fundamentals (3.0)</td>
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<td>IT 3530</td>
<td>Advanced System Administration--Windows Server (3.0)</td>
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<td>IT 3600</td>
<td>Internetworking and Router Management (3.0)</td>
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<tr>
<td>IT 3700</td>
<td>Information Security--Network Defense and Countermeasures (3.0)</td>
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<td>MATH 1220</td>
<td>Calculus II (5.0)</td>
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</tr>
<tr>
<td>MATH 2270</td>
<td>Linear Algebra (3.0)</td>
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</table>

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits, with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 or above. Must have a minimum grade of C- with a combined GPA of 2.5 or higher in all discipline core and emphasis requirements and the General Education requirements marked with an asterisk.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU. 10 of these hours must be within the last 45 hours earned. At least 12 of the credit hours earned in residence must be in approved CSE Department courses.
4. All transfer credit must be approved in writing by UVU.
5. No more than 80 semester hours and no more than 20 hours in CS type courses of transfer credit from a two-year college.
6. No more than 30 semester hours may be earned through independent study and/or extension classes.
7. Successful completion of at least one Global/Intercultural course.

**Footnote:** *Minimum grade required (see Graduation Requirements)*

**Computer Science - Computer Networking Emphasis, B.S.**

**Careers**

Graduates will work with organizations as important as national security departments associated with network security to small companies needing help with their network and network related software.

**Related Careers**

- Computer and Information Systems Managers
- Computer and Information Research Scientists
Computer Science - Computer Science Emphasis, B.S.

Requirements

Computer Science spans the range from theory through programming to cutting-edge development of computing solutions. Computer Scientists master the theory and practice of computing, and explore new and exciting ways to use computers. Systems like Google and Amazon are created by computer scientists.

Total Program Credits: 120

Matriculation Requirements:

1. Completion of CS 1400, CS 1410, CS 2300, and CS 2420 with a grade of C+ or better.
2. Completion of MATH 1210 and ENGL 1010 with a grade of C or better.
3. Overall GPA of 2.5 or higher.

General Education Requirements: 36 Credits

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<td>American Heritage (3.0)</td>
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Minimum grade of C- required in these courses.

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<td></td>
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<tr>
<td>Biology (choose from list)</td>
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Discipline Core Requirements: 48 Credits

Complete one of the following additional GE course/lab combinations: 5

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<td>BIOL 1610</td>
<td>College Biology I (4.0)</td>
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<td>and BIOL 1615</td>
<td>College Biology I Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>or CHEM 1210</td>
<td>Principles of Chemistry I (4.0)</td>
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</tr>
<tr>
<td>and CHEM 1215</td>
<td>Principles of Chemistry I Laboratory (1.0)</td>
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<tr>
<td>or PHYS 2220</td>
<td>Physics for Scientists and Engineers II Lab (1.0)</td>
<td></td>
</tr>
<tr>
<td>and PHYS 2225</td>
<td>Physics for Scientists and Engineers II Lab (1.0)</td>
<td></td>
</tr>
<tr>
<td>or GEO 1010</td>
<td>Introduction to Geology (3.0)</td>
<td></td>
</tr>
<tr>
<td>and GEO 1015</td>
<td>Introduction to Geology Laboratory (1.0)</td>
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<tr>
<td>and GEO 202R</td>
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<tbody>
<tr>
<td>PHYS 2210</td>
<td>Physics for Scientists and Engineers I *</td>
<td>4</td>
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<tr>
<td>and PHYS 2215</td>
<td>Physics for Scientists and Engineers I Lab *</td>
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Computer Science

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>CS 3060</td>
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<tr>
<td>CS 3240</td>
<td>Discrete Mathematical Structures II</td>
<td>3</td>
</tr>
<tr>
<td>CS 3320</td>
<td>Numerical Software Development</td>
<td>3</td>
</tr>
<tr>
<td>CS 3520</td>
<td>Database Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3710</td>
<td>Applied Probability and Statistics for Engineers and Scientists</td>
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Emphasis Requirements: 27 Credits

Minimum grade of C- required in these courses.

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<tbody>
<tr>
<td>CS 2450</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CS 3250</td>
<td>Java Software Development (3.0)</td>
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<tr>
<td>or</td>
<td>CS 3260 C# or NET Software Development</td>
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</tr>
<tr>
<td>or</td>
<td>CS 3270 Python Software Development</td>
<td>3</td>
</tr>
<tr>
<td>CS 3310</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CS 3370</td>
<td>C-plus-plus Software Development</td>
<td>3</td>
</tr>
<tr>
<td>CS 3450</td>
<td>Principles and Patterns of Software Design</td>
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<tr>
<td>CS 4380</td>
<td>Advanced/High-Performance Computer Architecture</td>
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<td>CS 4450</td>
<td>Analysis of Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>CS 4470</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CS 4490</td>
<td>Compiler Construction</td>
<td>3</td>
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</table>

Emphasis Elective Requirements: 9 Credits

Complete 9 credits from the following: any CS 3000 or 4000 level course not already required. (Minimum grade of C- required in these courses:)

<table>
<thead>
<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>ECE 3750</td>
<td>Engineering Analysis (3.0)</td>
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<td>IT 1510</td>
<td>Introduction to System Administration--Linux/UNIX (3.0)</td>
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Graduation Requirements:
1. Completion of a minimum of 120 semester credits, with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 or above. Must have a minimum grade of C- with a combined GPA of 2.5 or higher in all discipline core and emphasis requirements and the General Education requirements marked with an asterisk.
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6. No more than 30 semester hours may be earned through independent study and/or extension classes.
7. Successful completion of at least one Global/Intercultural course.

Footnote
* Minimum grade required (see Graduation Requirements)

Computer Science - Computer Science Emphasis, B.S.

Careers:
The work of Computer Scientists falls into three categories: a) designing and building software; b) developing effective ways to solve computing problems, such as storing information in databases, sending data over networks or providing new approaches to security problems; and c) devising new and better ways of using computers and addressing particular challenges in areas such as robotics, computer vision, or digital forensics.

Related Careers
- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Information Security Analysts
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Software Engineering, B.S.

Requirements
Software Engineers design and develop large software systems. In addition, they may lead teams of software developers or quality assurance engineers. They also work with users and customers to understand their needs. Software systems we take for granted, such as Microsoft Office, are implemented by software engineers. Software engineers employ innovative software development approaches, such as Agile software development, to effectively manage software development projects.

Total Program Credits: 122

Matriculation Requirements:
1. Completion of CS 1400, CS 1410, CS 2300, and CS 2420 with a grade of C+ better.
2. Completion of MATH 1210 and ENGL 1010 with a grade of C or better.
3. Overall GPA of 2.5 or higher.

General Education Requirements: 37 Credits

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<td>MATH 1210</td>
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### American Institutions
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
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</table>

and

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

### Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>PES 1097</td>
<td></td>
</tr>
</tbody>
</table>

### Distribution Requirements:

- Physical Science distribution 3
- Biology distribution 3
- Additional Physical Science or Biology 3
- Fine Arts Distribution 3
- COMM 1020 Public Speaking* 3
- COMM 2110 Interpersonal Communication* 3

### Discipline Core Requirements:

61 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1400</td>
<td>Fundamentals of Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 1410</td>
<td>Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 2810</td>
<td>Computer Organization and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CS 2300</td>
<td>Discrete Mathematical Structures I</td>
<td>3</td>
</tr>
<tr>
<td>CS 2420</td>
<td>Introduction to Algorithms and Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 2450</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CS 2600</td>
<td>Computer Networks I</td>
<td>3</td>
</tr>
<tr>
<td>COMP 301R</td>
<td>Digital Lecture Series</td>
<td>1</td>
</tr>
<tr>
<td>CS 305G</td>
<td>Global Social and Ethical Issues in Computing</td>
<td>3</td>
</tr>
<tr>
<td>CS 3060</td>
<td>Operating Systems Theory</td>
<td>3</td>
</tr>
<tr>
<td>CS 3240</td>
<td>Discrete Mathematical Structures II</td>
<td>3</td>
</tr>
<tr>
<td>CS 3320</td>
<td>Numerical Software Development</td>
<td>3</td>
</tr>
<tr>
<td>CS 3250</td>
<td>Java Software Development</td>
<td></td>
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<tr>
<td>or</td>
<td>CS 3370 C-plus-plus Software Development</td>
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<tr>
<td>or</td>
<td>CS 3260 CsharpNET Software Development</td>
<td></td>
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<tr>
<td>or</td>
<td>CS 3270 Python Software Development</td>
<td>3</td>
</tr>
<tr>
<td>CS 3450</td>
<td>Principles and Patterns of Software Design</td>
<td>3</td>
</tr>
<tr>
<td>CS 3410</td>
<td>Human Factors in Software Development</td>
<td>3</td>
</tr>
<tr>
<td>CS 3520</td>
<td>Database Theory</td>
<td>3</td>
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<tr>
<td>CS 4230</td>
<td>Software Testing and Quality Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CS 4400</td>
<td>Software Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>CS 4450</td>
<td>Analysis of Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>CS 4550</td>
<td>Software Engineering III</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3710</td>
<td>Applied Probability and Statistics for Engineers and Scientists</td>
<td>3</td>
</tr>
</tbody>
</table>

### Elective Requirements:

24 Credits

Complete 12 credits from the following:

- Any CS course numbered 3000 or higher not already required.

Complete at least 12 credits (at least 9 must be upper division) in an approved discipline other than Computer Science. See Advisor for details. Note that these credits may not also be used to fulfill general education requirements.

### Graduation Requirements:

1. Completion of a minimum of 122 semester credits, with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 or above. Must have a minimum grade of C- with a combined GPA of 2.5 or higher in all discipline core and elective requirements and the General Education requirements marked with an asterisk.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU. Ten of these hours must be within the last 45 hours earned. At least 12 of the credit hours earned in residence must be in approved CSE Department courses.
4. No more than 80 semester hours and no more than 20 hours of transfer credit from a two-year college may be applied to the core or elective courses.
5. No more than 6 semester hours may be earned through independent study.
6. Successful completion of at least one Global/Intercultural course.

Footnotes: *Minimum grade of C- required.
Software Engineering, B.S.

**Careers**

<table>
<thead>
<tr>
<th>Careers:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Engineers can expect to work in software development, to include eliciting customers' requirements, and designing and testing software</td>
</tr>
</tbody>
</table>

**Related Careers**

- Architectural and Engineering Managers
- Software Developers, Applications
- Software Developers, Systems Software
- Engineering Teachers, Postsecondary
Concurrent Enrollment

<table>
<thead>
<tr>
<th>Name:</th>
<th>Concurrent Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>EE 207</td>
</tr>
<tr>
<td>Telephone:</td>
<td>801-863-8376</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:concurrent@uvu.edu">concurrent@uvu.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td>uvu.edu/concurrent</td>
</tr>
<tr>
<td>Director:</td>
<td>Ted Ungricht</td>
</tr>
</tbody>
</table>

Concurrent Enrollment is a Utah Valley University High School partnership program, where qualified high school students can earn college credit prior to high school graduation.

On-site

These classes are taught at the high school campuses during the normal school day. Courses are taught by UVU-approved, high school instructors who meet the same academic requirements for faculty teaching at UVU. Students officially apply to UVU and subsequently register for courses available at their high school campus. Students pay a one-time admission fee and partial tuition based on the amount of registered credit hours. All courses are the same as those taught on the UVU campus including applicable prerequisites, course syllabus, course curriculum, modes of instruction, and assessment. An official high school transcript and a permanent college transcript are generated for all Concurrent Enrollment courses.

A site coordinator is provided at each high school to assist students in course selection and the registration process.

Live interactive

Many courses are delivered by interactive television and internet from UVU classrooms and faculty to high school sites throughout the state. These courses are broadcast during the normal school day. Students officially apply to UVU and register for Live-interactive courses available at their high school campus. Students pay a one-time admission fee, lab and textbook fees, and partial tuition based on the amount of registered credit hours. Students are held to the same standards of achievement as those expected of students in UVU campus sections. An official high school transcript and a permanent college transcript are generated for all Live-interactive courses.
Construction Technologies

Name: Construction Technologies
Location: GT 613
Telephone: 801-863-8500
Email: ConstructionTechnologies@uvu.edu
Web Address: uvu.edu/ct
Chair: J. Eric Linfield

Mission Statement
Our mission is to provide a dynamic opportunity for engaged learning through a variety of certificate and degree programs that foster integrity, creativity, hands-on activities, and scholarly work. Success is measured by learners who leave professionally competent to build better communities through service, leadership and lifelong learning in their chosen field.

Construction Technologies

- Department Advisor: Amy Ostler
  - Office: CS 635
  - Telephone: 801-863-8138
  - Email: Ostleram@uvu.edu

Building Inspection Technology

- Program Coordinator: Fred Davis
  - Office: GT 615
  - Telephone: 801-863-8861
  - Email: Davisfr@uvu.edu

Advisory Committee:
Quinn Davis, Wasatch County Building Official; Bill Bell, Building Safety Division Manager; Donna Jackson, Midvale City Building Official; Gilbert Gonzales, Murray City Assistant Building Official; Dave Johnson, Public Works Director/Building Official

Degree/Certificates:
- One Year Certificate
- Two Year Associate in Applied Science
- Bachelors of Science in Technology Management

Career Opportunities
Graduates of this program are better equipped to find employment in the building inspection and construction management fields. In addition, this curriculum will provide supporting instruction for those students in the Construction Technologies (CT) and the Engineering, Graphics and Design Technologies (EGDT) programs.

Reminder: An overall grade point average of 2.0 (C) or above is required for graduation.

Construction Management: Clyde Institute

- Program Coordinator: Robert Warcup
  - Office: GT 613e
  - Telephone: 801-863-8167
  - Email: Warcupro@uvu.edu

Advisory Committee:
Jeffrey R. Clyde, W.W. Clyde & Co.(Chair); Jim Golding, Geneva Rock; Greg Fix, Big D Construction; Darin Zwick, Zwick Construction; Kristen Mortensen, City Block; Paul Magleby, Magleby Companies.

Degree/Certificates
- Two Year Associate in Applied Science
- Two Year Associate in Science
- Bachelors of Science in Construction Management

Career Opportunities
Graduates of the four-year Construction Management program are prepared for employment in various levels of construction project management including superintendents, project engineers, construction schedulers and estimators.

Graduates of the two-year Construction Management program are prepared for employment as construction project foremen, crew leaders and entry positions in job supervision.

Reminder: An overall grade point average of 2.0 (C) or above is required for graduation.

Facilities Management

- Program Coordinator: Eric Linfield
  - Office: GT 601
  - Telephone: 801-863-8250
  - Email: Eric.Linfield@uvu.edu

Advisory Committee:
Mark Woods (chairperson), Novell, Inc.; Jim Michaelis, Utah Valley University; Darin Jones, Morinda Holdings/Tahitian Noni; Kris Ashby, Elite Grounds.

Degree/Certificates
- Two Year Associates in Applied Science
- Bachelors of Science in Technology Management

Career Opportunities
The Facilities Management program is designed to prepare graduates to manage physical facilities such as resorts, health care centers, government facilities, recreational complexes, schools, industrial plants, and apartment buildings. Wherever there are buildings to be maintained there is a career opportunity for the facility manager.
The job of the facility manager can vary considerably depending on the employing institution, but some of the more common responsibilities are physical plant operations, building and grounds maintenance, space planning, budgets and purchasing, and human resources.

Reminder: an overall grade point average of 2.0 (C) or higher is required for graduation.

College of Technology and Computing

• Dean: Michael Savoie
• Office: CS 720
• Phone: 801-863-8237
• Email: MSavoie@uvu.edu

DEPARTMENT CHAIR
LINFIELD, J. Eric  Associate Professor

FACULTY
BAIRD, Kellan  Associate Professor
COX, James  Associate Professor
DAVIS, Ben Fred  Associate Professor
ERDMANN, DeWayne  Associate Professor
HALLSTED, Barry  Assistant Professor
LINFIELD, J. Eric  Associate Professor
WARCUP, Robert  Associate Professor

Course Descriptions
Building Inspection Technology.................................................................549
Cabinetry and Archit Woodwork............................................................ 554
Construction Management....................................................................... 563
Facilities Management............................................................................. 636

Degrees & Programs
Building Inspection Technology, A.A.S.

Requirements
Students may earn a One-Year Certificate, an Associate in Applied Science Degree, or a Bachelor of Science Degree in Technology Management.

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

Total Program Credits: 64

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>17 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMGT 1150  Construction Safety</td>
<td>2</td>
</tr>
<tr>
<td>COMM 1020  Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMM 2110  Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1600  Technical Math–Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 1030  Quantitative Reasoning (3.0)</td>
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<tr>
<td>PHSC 1000  Survey of Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1010  Introduction to Writing</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>47 Credits</th>
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<tbody>
<tr>
<td>BIT 1010  Building Codes</td>
<td>3</td>
</tr>
<tr>
<td>BIT 1170  Field Lab–Building Codes</td>
<td>1</td>
</tr>
<tr>
<td>BIT 1230  Plan Review</td>
<td>3</td>
</tr>
<tr>
<td>BIT 1240  Plumbing Codes</td>
<td>3</td>
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</table>

Buildings Inspection Technology, A.A.S.

Careers
Students may earn a One-Year Certificate, an Associate in Applied Science Degree, or a Bachelor of Science Degree in Technology Management.

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

Total Program Credits: 64

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<td>ENGL 1010  Introduction to Writing</td>
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<tr>
<td>BIT 1170  Field Lab–Building Codes</td>
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</tr>
<tr>
<td>BIT 1230  Plan Review</td>
<td>3</td>
</tr>
<tr>
<td>BIT 1240  Plumbing Codes</td>
<td>3</td>
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</table>

or CMGT 3020  Building Envelopes and Mechanical Systems (3.0)

<table>
<thead>
<tr>
<th>Course Descriptions</th>
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<tbody>
<tr>
<td>BIT 1330  Mechanical Codes</td>
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<tr>
<td>or CMGT 3020  Building Envelopes and Mechanical Systems (3.0)</td>
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<tr>
<td>BIT 1340  Electrical Codes</td>
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<tr>
<td>BIT 1380  Ride-Along Lab</td>
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<tr>
<td>EGDT 1020  3D Architectural Modeling</td>
<td>3</td>
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<tr>
<td>EGDT 1400  Surveying</td>
<td>3</td>
</tr>
<tr>
<td>ESFO 2030  Fire Inspector I</td>
<td>3</td>
</tr>
<tr>
<td>IM 2010  Business Computer Proficiency</td>
<td>3</td>
</tr>
<tr>
<td>IM 2600  Spreadsheet Applications (3.0)</td>
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</tr>
<tr>
<td>or IM 2600  Spreadsheet Applications (3.0)</td>
<td></td>
</tr>
<tr>
<td>or IM 3700  Database Applications (3.0)</td>
<td></td>
</tr>
<tr>
<td>or IM 1010  Introduction to Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>or IM 1020  Construction Materials and Methods I</td>
<td>3</td>
</tr>
<tr>
<td>or IM 2010  Construction Materials and Methods II</td>
<td>3</td>
</tr>
<tr>
<td>or IM 1190  Concrete and Framing Lab</td>
<td>3</td>
</tr>
<tr>
<td>or IM 281R  Internship (1.0)</td>
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</tr>
<tr>
<td>or IM 1220  Finishing Lab</td>
<td>3</td>
</tr>
<tr>
<td>or IM 281R  Internship (1.0)</td>
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</tr>
<tr>
<td>or IM 3010  Construction Materials Testing</td>
<td>3</td>
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</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above (department may require a higher GPA).
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.

Cabinetry and Architectural Woodwork, A.A.S.

Requirements
Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, or an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

Related Careers
• First-Line Supervisors of Construction Trades and Extraction Workers
• Construction and Building Inspectors

Total Program Credits: 66

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>16 Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH</td>
<td></td>
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<tr>
<td>ENGL 1010  Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ACC 3000  Financial Managerial and Cost Accounting Concepts (3.0)</td>
<td></td>
</tr>
</tbody>
</table>
Construction Technologies

ACC 1150  Fundamentals of Business Math  3

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
Any approved Humanities, Fine Arts, or Foreign Language Distribution Course  3

SOCIAL AND BEHAVIORAL SCIENCE
Any approved Social or Behavioral Science Distribution course  3

BIOLOGY OR PHYSICAL SCIENCE
Any approved Biology or Physical Science Distribution Course  3

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
Any approved Physical Education, Health, Safety or Environment Course  1

Discipline Core Requirements:  50 Credits
CAW 1130  Residential Cabinetry  4
CAW 1140  Millworking and Safety Shop I  5
CAW 1150  Design Drafting and Billing  3
CAW 1170  Finish Technology  2
CAW 1210  Cabinetmaking Materials and Hardware  1
CAW 1240  Millworking Shop II  5
CAW 1250  Drafting and Computer Applications for Cabinetmakers  4
CAW 2300  Counter-top Technology  3
CAW 2310  Cabinet Math  2
CAW 2340  Millworking Shop III  5
CAW 2430  Commercial Cabinetry Technology  4
CAW 2440  Millworking Shop IV  5
CAW 2450  Machine Maintenance and Upkeep  2
CAW 299R  Skills USA  2
EGDT 1040  Computer Aided Drafting--AutoCAD  3

Graduation Requirements:
1. Completion of a minimum of 66 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Complete all core requirements with a minimum grade of "C-" or better.

Cabinetry and Architectural Woodwork, A.S.

Careers:
The highly skilled craftsman in the cabinetry field may find work in factory production, set-up, milling, assembling, and installing highly customized cabinetry in residences, banks, department stores, and restaurants. Other jobs may be found in furniture work, and specialized facets of the industry. Self-employment often follows short-term trade experience.

Related Careers
• Cabinetmakers and Bench Carpenters
• Model Makers, Wood
• Patternmakers, Wood
• Sawing Machine Setters, Operators, and Tenders, Wood
• Woodworking Machine Setters, Operators, and Tenders, Except Sawing
• Woodworkers, All Other

Cabinetry and Architectural Woodwork, A.S.

Requirements
Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

Total Program Credits: 63

General Education Requirements:  35 Credits
ENGL 1010  Introduction to Writing  3
ENGL 2010  Intermediate Writing—Humanities/Social Sciences  3
or ENGL 2020  Intermediate Writing—Science and Technology (3.0)

Complete one of the following:  3
MATH 1030  Quantitative Reasoning (3.0)
MATH 1040  Introduction to Statistics (3.0)
MATH 1050  College Algebra (4.0)

Complete one of the following:  3
HIST 2700  US History to 1877 (3.0)
and HIST 2710  US History since 1877 (3.0)
HIST 1700  American Civilization (3.0)
HIST 1740  US Economic History (3.0)
POLS 1000  American Heritage (3.0)
POLS 1100  American National Government (3.0)

Complete one of the following:
PHIL 2050  Ethics and Values  3
HLTH 1100  Personal Health and Wellness (2.0)
or PES 1097  Fitness for Life  2

Distribution Courses
Biology  3
Physical Science  3
Additional Biology or Physical Science  3
Humanities Distribution  3
Fine Arts Distribution  3
Social/Behavioral Science  3

Discipline Core Requirements:  16 Credits
Choose from CAW courses 1000 level or higher  16

Elective Requirements:  12 Credits
Choose from courses 1000 level or higher  12

Graduation Requirements:
1. Completion of a minimum of 63 semester credits
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Cabinetry and Architectural Woodwork, A.S.

Careers:
Construction Technologies

The highly skilled craftsperson in the cabinetmaking field may find work in factory production, set-up, milling, assembling, and installing highly customized cabinetry in residences, banks, department stores, and restaurants. Other jobs may be found in furniture work, and specialized facets of the industry. Self-employment often follows short-term trade experience.

Related Careers

- Cabinetmakers and Bench Carpenters
- Model Makers, Wood
- Patternmakers, Wood
- Sawing Machine Setters, Operators, and Tenders, Wood
- Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- Woodworkers, All Other

Construction Management, A.A.S.

Requirements

Students may earn an Associate in Applied Science degree. The Clyde Institute of Construction Management Program has been designed to provide students a strong foundation in Construction Management that prepares them for jobs in construction site supervision and/or for advancement on to a BS degree in Construction Management. The program provides courses in building construction, construction management and construction science that apply to all segments of the construction industry with an emphasis on heavy civil and commercial construction. Students will learn about construction materials and methods through the use of readings, 3-D models, hands-on laboratory exercises, and site visits. Construction management courses in estimating and scheduling are also provided along with a strong background in mathematics, computer technology, business and other general education subjects. A supervisory course is also required so students can learn to manage workers at construction sites.

Total Program Credits: 63

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>17 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGDT 1720 Architectural Rendering *</td>
<td>3</td>
</tr>
<tr>
<td>or COMM 1020 Public Speaking (3.0)</td>
<td></td>
</tr>
<tr>
<td>MGMT 2110 Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>or COMM 2110 Interpersonal Communication (3.0)</td>
<td></td>
</tr>
<tr>
<td>or FIN 1060 Personal Finance (3.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 1800 Technical Math--Algebra</td>
<td>3</td>
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<tr>
<td>or MATH 1030 Quantitative Reasoning (3.0)</td>
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<tr>
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<tr>
<td>PHYS 1010 Elementary Physics</td>
<td>3</td>
</tr>
<tr>
<td>or PHSC 1000 Survey of Physical Science (3.0)</td>
<td></td>
</tr>
<tr>
<td>or ENVT 1110 Introduction to Environmental Management (3.0)</td>
<td></td>
</tr>
<tr>
<td>CMGT 1150 Construction Safety</td>
<td>2</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 37 Credits

| ACC 3000 Financial Managerial and Cost Accounting Concepts | 3 |
| or ACC 2010 Financial Accounting (3.0) | |
| and ACC 2020 Managerial Accounting (3.0) | |
| IM 2010 Business Computer Proficiency | 3 |
| or IM 2600 Spreadsheet Applications (3.0) | |
| or IM 3700 Database Applications (3.0) | |
| EGDT 1400 Surveying | 3 |
| GEO 1010 Introduction to Geology | 3 |
| CMGT 1010 Introduction to Construction Management | 3 |

The Clyde Institute of Construction Management Program has been designed to provide students a strong foundation in Construction Management that prepares them for jobs in construction site supervision and/or for advancement on to a BS degree in Construction Management.

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Complete all core requirements with a minimum grade of C - or better.

Construction Management, A.A.S.

Careers:

Management program are prepared for employment in various levels of construction project management including superintendents, project engineers, construction schedulers and estimators. Graduates of the two-year Construction Management program are prepared for employment as construction project foremen, crew leaders and entry positions in job supervision.

Related Careers

- Construction Managers

Facilities Management, A.A.S.

Requirements

Two options are available: An Associate in Applied Science degree and a Bachelor of Science Degree in Technology Management.

Total Program Credits: 65

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>17 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMGT 1150 Construction Safety</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1600 Technical Math--Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 1030 Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
</tbody>
</table>
Construction Technologies

Any approved Biology or Physical Science Distribution Course (Recommended: PHYS 1010) 3
TECH 2000 Technology and Human Life 3

Discipline Core Requirements: 48 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 2010</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BIT 1010</td>
<td>Building Codes</td>
<td>3</td>
</tr>
<tr>
<td>BIT 1230</td>
<td>Plan Review</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 1010</td>
<td>Introduction to Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 1190</td>
<td>Concrete and Framing Lab</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CMGT 281R Internship (1.0)</td>
<td></td>
</tr>
<tr>
<td>CMGT 1220</td>
<td>Finishing Lab</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CMGT 281R Internship (1.0)</td>
<td></td>
</tr>
<tr>
<td>CMGT 3000</td>
<td>Principles of Construction Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 3020</td>
<td>Building Envelopes and Mechanical Systems</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 3160</td>
<td>Building Information Modeling</td>
<td>3</td>
</tr>
<tr>
<td>IM 2010</td>
<td>Business Computer Proficiency</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1020</td>
<td>3D Architectural Modeling</td>
<td>3</td>
</tr>
<tr>
<td>FAC 1010</td>
<td>Survey of Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3130</td>
<td>Real Estate Principles and Finance</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3140</td>
<td>Real Estate Law</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 2200</td>
<td>Written Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 65 semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.

Facilities Management, A.A.S.

Careers:
The Facilities Management program is designed to prepare graduates to manage physical facilities such as resorts, health care centers, government facilities, recreational complexes, schools, industrial plants, and apartment buildings. Wherever there are buildings to be maintained there is a career opportunity for the facility manager. The job of the facility manager can vary considerably depending on the employing institution, but some of the more common responsibilities are:

- providing environmental control such as: heating and cooling, air quality and lighting
- maintaining buildings and grounds
- approving changes in existing structures and approving plans for new facilities
- supervising personnel
- purchasing
- budgeting and accounting
- preventative maintenance and protection

Related Careers
- First-Line Supervisors of Housekeeping and Janitorial Workers
- First-Line Supervisors of Construction Trades and Extraction Workers
- Maintenance and Repair Workers, General

Building Inspection Technology, Certificate of Completion

Requirements
Students may earn a One-Year Certificate, an Associate in Applied Science Degree, or a Bachelor of Science Degree in Technology Management.

Total Program Credits: 31

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>31 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 2110 Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>BIT 1010 Building Codes</td>
<td>3</td>
</tr>
<tr>
<td>BIT 1170 Field Lab—Building Codes</td>
<td>1</td>
</tr>
<tr>
<td>BIT 1240 Plumbing Codes</td>
<td>3</td>
</tr>
<tr>
<td>BIT 1330 Mechanical Codes</td>
<td>3</td>
</tr>
<tr>
<td>BIT 1340 Electrical Codes</td>
<td>3</td>
</tr>
<tr>
<td>BIT 1380 Ride-Along Lab</td>
<td>1</td>
</tr>
<tr>
<td>CMGT 1020 Construction Materials and Methods I</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 1150 Construction Safety</td>
<td>2</td>
</tr>
<tr>
<td>CMGT 1190 Concrete and Framing Lab (3.0)</td>
<td></td>
</tr>
<tr>
<td>or CMGT 281R Internship</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 1220 Finishing Lab (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or CMGT 281R Internship</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 2010 Construction Materials and Methods II</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 31 credits.
2. Overall GPA of 2.0 or higher
3. Residency hours -- Minimum of 10 credits required through course attendance at UVU

Facilities Management, A.A.S.

Careers:
Graduates of this program will be better equipped to find employment in building inspection, building construction, and construction supervision. In addition, this curriculum will provide supporting instruction for those students in the construction trades as well as architectural and engineering drafting programs.

Related Careers
- First-Line Supervisors of Construction Trades and Extraction Workers
- Construction and Building Inspectors

Cabinetry and Architectural Woodwork, Certificate of Completion

Requirements
Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

Total Program Credits: 32

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>32 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 1150 Fundamentals of Business Math</td>
<td>3</td>
</tr>
<tr>
<td>CAW 1130 Residential Cabinetry</td>
<td>4</td>
</tr>
</tbody>
</table>
### Construction Technologies

#### Course Catalog 2015-2016

- **Utah Valley University**

#### CAW 1140
- **Millworking and Safety Shop I**
- **5 Credits**

#### CAW 1150
- **Design Drafting and Billing**
- **3 Credits**

#### CAW 1170
- **Finish Technology**
- **2 Credits**

#### CAW 1210
- **Cabinetmaking Materials and Hardware**
- **1 Credit**

#### CAW 1240
- **Millworking Shop II**
- **5 Credits**

#### CAW 1250
- **Drafting and Computer Applications for Cabinetmakers**
- **4 Credits**

#### CAW 2310
- **Cabinetry Math**
- **2 Credits**

#### EGDT 1040
- **Computer Aided Drafting--AutoCAD**
- **3 Credits**

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#### Graduation Requirements:
1. Completion of a minimum of 32 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU.
4. Complete all courses with a minimum grade of "C-" or better.

#### Cabinetry and Architectural Woodwork, Certificate of Completion

#### Careers

The highly skilled craftsperson in the cabinetmaking field may find work in factory production, set-up, milling, assembling, and installing highly customized cabinetry in residences, banks, department stores, and restaurants. Other jobs may be found in furniture work, and specialized facets of the industry. Self-employment often follows short-term trade experience.

#### Related Careers
- Cabinetmakers and Bench Carpenters
- Model Makers, Wood
- Patternmakers, Wood
- Sawing Machine Setters, Operators, and Tenders, Wood
- Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- Woodworkers, All Other

#### Construction Management, Certificate of Completion

#### Requirements

A Certificate of Completion for students seeking an applied education in construction. The courses can lead the students who desire to further their education towards the AAS and/or BS degree in Construction Management.

#### Total Program Credits: 30

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMGT 1010 Introduction to Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 1020 Construction Materials and Methods I</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 1150 Construction Safety</td>
<td>2</td>
</tr>
<tr>
<td>CMGT 1190 Concrete and Framing Lab</td>
<td>3</td>
</tr>
<tr>
<td>or CMGT 281R Internship</td>
<td>3</td>
</tr>
<tr>
<td>or CMGT 1220 Finishing Lab</td>
<td>3</td>
</tr>
<tr>
<td>or CMGT 281R Internship</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 2010 Construction Materials and Methods II</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 399R Student Professional Organization</td>
<td>1</td>
</tr>
</tbody>
</table>

### Graduation Requirements:
1. Completion of a minimum of 30 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. No grade lower than a C-.
4. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

#### Construction Management, Certificate of Completion

#### Careers

Graduates of this program will be better equipped to find employment as construction project foremen, crew leaders and entry positions in job supervision.

#### Related Careers
- Construction Managers

#### Cabinetry and Architectural Woodwork, Diploma

#### Requirements

Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

#### Total Program Credits: 51

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAW 1130 Residential Cabinetry</td>
<td>4</td>
</tr>
<tr>
<td>CAW 1140 Millworking and Safety Shop I</td>
<td>5</td>
</tr>
<tr>
<td>CAW 1150 Design Drafting and Billing</td>
<td>3</td>
</tr>
<tr>
<td>CAW 1170 Finish Technology</td>
<td>2</td>
</tr>
<tr>
<td>CAW 1210 Cabinetmaking Materials and Hardware</td>
<td>1</td>
</tr>
<tr>
<td>CAW 1240 Millworking Shop II</td>
<td>5</td>
</tr>
<tr>
<td>CAW 1250 Drafting and Computer Applications for Cabinetmakers</td>
<td>4</td>
</tr>
<tr>
<td>CAW 2300 Counter-top Technology</td>
<td>3</td>
</tr>
<tr>
<td>CAW 2310 Cabinetry Math</td>
<td>2</td>
</tr>
<tr>
<td>CAW 2340 Millworking Shop III</td>
<td>5</td>
</tr>
<tr>
<td>CAW 2430 Commercial Cabinetry Technology</td>
<td>4</td>
</tr>
<tr>
<td>CAW 2440 Millworking Shop IV</td>
<td>5</td>
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</tbody>
</table>

---
## Construction Technologies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAW 2450</td>
<td>Machine Maintenance and Upkeep</td>
<td>2</td>
</tr>
<tr>
<td>COMM 2110</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1040</td>
<td>Computer Aided Drafting—AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>CAW 299R</td>
<td>Skills USA (1.0)</td>
<td></td>
</tr>
</tbody>
</table>

### Graduation Requirements:
1. Completion of a minimum of 51 or more semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Complete all Technical Specialty courses with a minimum grade of "C-" or better.

### Careers

#### Cabinetry and Architectural Woodwork, Diploma Careers

- Cabinetmakers and Bench Carpenters
- Model Makers, Wood
- Patternmakers, Wood
- Sawing Machine Setters, Operators, and Tenders, Wood
- Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- Woodworkers, All Other

#### Construction Management, B.S.

### Requirements

Students may earn an Associate in Applied Science degree. The Clyde Institute of Construction Management Program has been designed to provide students a strong foundation in Construction Management that prepares them for jobs in construction site supervision and/or for advancement onto a BS degree in Construction Management.

The program provides courses in building construction, construction management and construction science that apply to all segments of the construction industry with an emphasis on heavy civil and commercial construction. Students will learn about construction materials and methods through the use of readings, 3-D models, hands-on laboratory exercises, and site visits. Construction management courses in estimating and scheduling are also provided along with a strong background in mathematics, computer technology, business and other general education subjects. A supervisory course is also required so students can learn to manage workers at construction sites.

### Total Program Credits: 120

#### General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing—Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2010</td>
<td>Intermediate Writing—Humanities/Social Sciences (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
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</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
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</tr>
</tbody>
</table>

### Distribution Courses

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGDT 1720</td>
<td>Architectural Rendering</td>
<td>3</td>
</tr>
<tr>
<td>COMM 1020</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2110</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>or COMM 2110</td>
<td>Interpersonal Communication (3.0)</td>
<td></td>
</tr>
<tr>
<td>or FIN 1060</td>
<td>Personal Finance (3.0)</td>
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</tr>
<tr>
<td>GEO 1010</td>
<td>Introduction to Geology</td>
<td>3</td>
</tr>
<tr>
<td>or ENVT 1110</td>
<td>Introduction to Environmental Management (3.0)</td>
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</tr>
<tr>
<td>PHYS 1010</td>
<td>Elementary Physics</td>
<td>3</td>
</tr>
<tr>
<td>or PHSC 1000</td>
<td>Survey of Physical Science (3.0)</td>
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</tr>
</tbody>
</table>

### Discipline Core Requirements: 76 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMGT 1010</td>
<td>Introduction to Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 1150</td>
<td>Construction Safety</td>
<td>2</td>
</tr>
<tr>
<td>CMGT 1190</td>
<td>Concrete and Framing Lab</td>
<td>3</td>
</tr>
<tr>
<td>or CMGT 1220</td>
<td>Finishing Lab (3.0)</td>
<td></td>
</tr>
<tr>
<td>or CMGT 281R</td>
<td>Internship (1.0)</td>
<td></td>
</tr>
<tr>
<td>CMGT 2010</td>
<td>Construction Materials and Methods I</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 2010</td>
<td>Construction Materials and Methods II</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 3000</td>
<td>Principles of Construction Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 3010</td>
<td>Construction Materials Testing</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 3030</td>
<td>Principles of Construction Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 3040</td>
<td>Construction Job Site Management</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 3060</td>
<td>Applied Statics and Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>or EGDT 2600</td>
<td>Statics (3.0)</td>
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</tr>
<tr>
<td>and EGDT 2610</td>
<td>Strength of Materials (3.0)</td>
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</tr>
<tr>
<td>CMGT 399R</td>
<td>Student Professional Organization</td>
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</tr>
<tr>
<td>CMGT 3080</td>
<td>Construction Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 4500</td>
<td>Senior Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 481R</td>
<td>Internship</td>
<td>1</td>
</tr>
<tr>
<td>LEGL 3000</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>IM 1010</td>
<td>Business Computer Proficiency</td>
<td>3</td>
</tr>
<tr>
<td>or IM 3700</td>
<td>Database Applications (3.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 1400</td>
<td>Surveying</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1600</td>
<td>Technical Math—Algebra</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1610</td>
<td>Technical Math—Geometry/Trig</td>
<td>3</td>
</tr>
<tr>
<td>ACC 3000</td>
<td>Financial Managerial and Cost Accounting Concepts</td>
<td></td>
</tr>
<tr>
<td>or ACC 2100</td>
<td>Financial Accounting (3.0)</td>
<td></td>
</tr>
<tr>
<td>and ACC 2020</td>
<td>Managerial Accounting (3.0)</td>
<td></td>
</tr>
</tbody>
</table>
Complete 21 credits from one of the following two specializations: | 21 |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Heavy/Civil</strong></td>
<td></td>
</tr>
<tr>
<td>CMGT 3050</td>
<td>Construction Equipment, Planning and Logistics (3.0)</td>
</tr>
<tr>
<td>CMGT 4010</td>
<td>Construction Contracts (3.0)</td>
</tr>
<tr>
<td>CMGT 405G</td>
<td>Global Sustainability and the Built Environment (3.0)</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>SURV 455G</td>
<td>Global Professional Ethics and Liabilities (3.0)</td>
</tr>
<tr>
<td>EGDT 1040</td>
<td>Computer Aided Drafting--AutoCAD (3.0)</td>
</tr>
<tr>
<td>EGDT 2400</td>
<td>Surveying Applications (3.0)</td>
</tr>
<tr>
<td>EGDT 3500</td>
<td>Advanced Civil Drafting and Design (3.0)</td>
</tr>
<tr>
<td>ENVT 3320</td>
<td>Hydraulics of Water (3.0)</td>
</tr>
<tr>
<td><strong>Commercial/Residential</strong></td>
<td></td>
</tr>
<tr>
<td>BIT 1010</td>
<td>Building Codes (3.0)</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>BIT 1020</td>
<td>Residential Codes (3.0)</td>
</tr>
<tr>
<td>CMGT 3020</td>
<td>Building Envelopes and Mechanical Systems (3.0)</td>
</tr>
<tr>
<td>CMGT 3160</td>
<td>Building Information Modeling (3.0)</td>
</tr>
<tr>
<td>CMGT 4010</td>
<td>Construction Contracts (3.0)</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Legl 3140</td>
<td>Real Estate Law (3.0)</td>
</tr>
<tr>
<td>CMGT 405G</td>
<td>Global Sustainability and the Built Environment (3.0)</td>
</tr>
<tr>
<td>EGDT 1020</td>
<td>3D Architectural Modeling (3.0)</td>
</tr>
<tr>
<td>Legl 3130</td>
<td>Real Estate Principles and Finance (3.0)</td>
</tr>
<tr>
<td><strong>Elective Requirements:</strong></td>
<td>9 Credits</td>
</tr>
<tr>
<td>Choose 9 credits from the following:</td>
<td>9</td>
</tr>
<tr>
<td>Upper division Woodbury School of Business courses.</td>
<td></td>
</tr>
<tr>
<td>Upper division Technology Management courses</td>
<td></td>
</tr>
<tr>
<td>Other upper division Technical Specialty courses as approved by Department Chair</td>
<td></td>
</tr>
<tr>
<td>Any upper division CMGT or EGDT courses not already completed.</td>
<td></td>
</tr>
</tbody>
</table>

**Graduation Requirements:**
1. Completion of a minimum of 120 semester hours
2. A minimum of 40 credits must be upper-division (numbered 3000 or above).
3. Overall grade point average of 2.0 (C) or above
4. No grade lower than a C- in any Discipline Core or Elective course
5. Completion of GE and specified departmental requirements
6. Residency hours - Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours
7. Successful completion of at least one Global/Intercultural course.

**Construction Management, B.S.**

**Careers**

Graduates of the four-year Construction Management program are prepared for employment in various levels of construction project management including superintendents, project engineers, construction schedulers and estimators.

Graduates of the two-year Construction Management program are prepared for employment as construction project foremen, crew leaders and entry positions in job supervision.
The Criminal Justice program is committed to fostering a challenging and intellectually stimulating environment that provides a broad range of interactive academic and field experiences. An understanding and appreciation of the theory, research, policy and practice of criminal justice, as a unique discipline, will be advanced. The department will promote the development of future professionals who are capable of assuming responsibility for the research, continuing scholarship and administration of the criminal justice system.

The Forensic Science program is committed to fostering a challenging and intellectually stimulating environment that provides a broad range of interactive academic and field experiences. An understanding and appreciation of theory, research, policy and practice of forensic science, as a unique discipline, will be advanced. The department will promote the development of future professionals who are capable of assuming responsibility for the research, continuing scholarship and administration of forensic science.

The following values will dictate our actions in carrying out these missions:

- Academically and professionally qualified faculty.
- Superior teaching.
- Scholarly activities that enhance and strengthen teaching.
- Continued re-evaluation, assessment, and corrections to curriculum.
- Ethical awareness and conduct.
- Cooperation, communication, and diversity across the curriculum.
- Development of sensitivity towards, and appreciation for, cultural diversity.
- Development of analytical and critical thinking skills essential to the practice of forensic science.
- Preparation for the technologically sophisticated legal environment of the 21st century.

Advancement of the study of law within the context of an interdisciplinary liberal arts education.

The vision of the Criminal Justice Department is to become an academic program in the field of Criminal Justice recognized by students, and alumni, which provides them with a critical understanding of the total system of criminal justice and the society in which it functions. Additionally, we aspire to be recognized by local, state, and federal law enforcement communities for our progressive education, service, intellectual maturity, and ethical awareness.

The vision of the Forensic Science area of the Criminal Justice Department is to become an academic program in the field of Forensic Science recognized by students, and alumni, which provides a critical understanding of the investigation procedures for forensic evidence and the society in which it functions. Additionally, we aspire to be recognized by local, state, and federal law enforcement communities for our progressive education, service, intellectual maturity, and ethical awareness.

The following strategies/goals are being pursued to move toward the above vision:

- Organize a Skills USA criminal justice program. Increase the number of students in both the criminal justice and the forensic science programs.
- Continue curriculum improvement efforts and link assessment more closely to competencies.
- Increase rigor/scholarship across the curriculum.
- Actively participate in professional organizations.
- Promote scholarly research and development within the faculty.

Contribution to Overall UVU Mission

The departmental mission was developed to contribute to the College of Aviation & Public Services mission which, in turn, contributes to UVU’s mission. Critical to our program is a focus on developing a curriculum, along with other departments at UVU, which prepares our students to be competent for employment or advanced education and excellence in teaching, scholarship, and community service.

<table>
<thead>
<tr>
<th>Mission Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mission, Goals, and Values</td>
</tr>
<tr>
<td>The Criminal Justice program is committed to fostering a challenging and intellectually stimulating environment that provides a broad range of interactive academic and field experiences. An understanding and appreciation of the theory, research, policy and practice of criminal justice, as a unique discipline, will be advanced. The department will promote the development of future professionals who are capable of assuming responsibility for the research, continuing scholarship and administration of the criminal justice system.</td>
</tr>
</tbody>
</table>
Criminal Justice/Law Enforcement

Course Descriptions
Criminal Justice...................................................................................................560
Forensic Science.................................................................................................641

Degrees & Programs
Criminal Justice, A.A.

Requirements
Students in Criminal Justice may receive a Certificate of Proficiency in Law Enforcement Academy, an Associate in Science Degree in Criminal Justice, a Bachelor of Science Degree in Criminal Justice, or a Bachelor of Science Degree in Forensic Science.

Total Program Credits: 60

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
</tr>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0)</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

- HIST 2700 | US History to 1877 (3.0) |
- HIST 2710 | US History since 1877 (3.0) |
- HIST 1700 | American Civilization (3.0) |
- HIST 1740 | US Economic History (3.0) |
- POLS 1000 | American Heritage (3.0) |
- POLS 1100 | American National Government (3.0) |

Complete the following:

- PHIL 2050 | Ethics and Values | 3 |
- HLTH 1100 | Personal Health and Wellness | 2 |

or

- PES 1097 | Fitness for Life (2.0) |

Distribution Courses:

- Biology | 3 |
- Physical Science | 3 |
- Additional Biology or Physical Science | 3 |
- Humanities Distribution | 3 |
- Fine Arts Distribution | 3 |
- Social/Behavioral Science | 3 |

Discipline Core Requirements: 15 Credits

| CJ 1010 | Introduction to Criminal Justice | 3 |
| CJ 1340 | Criminal Investigations | 3 |
| CJ 1350 | Introduction to Forensic Science | 3 |

Elective Requirements: 10 Credits

- Foreign Language | 8 |
- Any 1000-level course or higher | 2 |

Graduation Requirements:
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU
4. For the AA degree, completion of 8 credit hours of course work from one language.
5. Must have a grade of C- or higher in all core and elective requirements.

Criminal Justice, A.A.

Careers

Careers:
For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States Marshall, Internal Revenue officer, Border Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

Related Careers
- Managers, All Other
- Criminal Justice and Law Enforcement Teachers, Postsecondary
- First-Line Supervisors of Police and Detectives

Criminal Justice, A.S.

Requirements
Students in Criminal Justice may receive a Certificate of Proficiency in Law Enforcement Academy, an Associate in Science Degree in Criminal Justice, a Bachelor of Science Degree in Criminal Justice, or a Bachelor of Science Degree in Forensic Science.

Total Program Credits: 60

<table>
<thead>
<tr>
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</tr>
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<td>Introduction to Statistics (3.0)</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

- HIST 2700 | US History to 1877 (3.0) |
- HIST 2710 | US History since 1877 (3.0) |
- HIST 1700 | American Civilization (3.0) |
- HIST 1740 | US Economic History (3.0) |
- POLS 1000 | American Heritage (3.0) |
- POLS 1100 | American National Government (3.0) |

Complete the following:

- PHIL 2050 | Ethics and Values | 3 |
- HLTH 1100 | Personal Health and Wellness | 2 |

or

- PES 1097 | Fitness for Life (2.0) |

Distribution Courses:
### Criminal Justice/Law Enforcement

#### Graduation Requirements:
1. Completion of a minimum of 60 or more semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements.
5. Must have a grade of C- or higher in all core and elective requirements.

#### Criminal Justice, A.S.

**Careers**

For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States Marshall, Internal Revenue officer, Border Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

**Related Careers**
- Managers, All Other
- Criminal Justice and Law Enforcement Teachers, Postsecondary
- First-Line Supervisors of Police and Detectives

#### Law Enforcement, Certificate of Proficiency

**Requirements**

Utah Valley University is a sanctioned provider of the Utah Law Enforcement Academy, the basic training program for certification of law enforcement officers. The academy is divided into two modules. The first, or core, provides training required for certification of special function officers and is foundational for law enforcement and correctional officers. The second module is required for certification as a reserve or law enforcement officer.

**Total Program Credits: 18**

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POST Module I</td>
<td>7</td>
</tr>
<tr>
<td>POST Module II</td>
<td>11</td>
</tr>
</tbody>
</table>

**Graduation Requirements:**
1. Individual must pass State POST written certification test at 80% or above to become State POST certified.
2. Individual must pass State POST physical certification test at the determined State requirements.
3. Completion of a minimum of 18 credits.
4. Overall grade point average of 3.0 or above.
5. Residency hours -- Minimum of 5 credits required through course attendance at UVU.

**Careers**
For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States Marshall, Internal Revenue officer, Border Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

**Related Careers**
- Managers, All Other
- Criminal Justice and Law Enforcement Teachers, Postsecondary
- First-Line Supervisors of Police and Detectives

**Total Program Credits: 24**

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
<th>12 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discipline Core Requirements:</td>
<td></td>
</tr>
<tr>
<td>CJ 1010 Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1340 Criminal Investigations</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1350 Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1330 Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CJ 2350 Laws of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>Elective Requirements:</td>
<td>12 Credits</td>
</tr>
<tr>
<td>Complete 12 credits from any CJ upper-division courses</td>
<td>12</td>
</tr>
</tbody>
</table>

**Graduation Requirements:**
1. Overall grade point average of 2.5 (C) or above, with completion of each Criminal Justice class with a "C-" or higher.

**Careers**
For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States Marshall, Internal Revenue officer, Border Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.
Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

**Related Careers**
- Managers, All Other
- Criminal Justice and Law Enforcement Teachers, Postsecondary
- First-Line Supervisors of Police and Detectives

**Forensic Science, Minor**

**Requirements**
Students in Criminal Justice may receive a Certificate of Proficiency in Law Enforcement Academy; an Associate in Science Degree in Criminal Justice; a Bachelor of Science Degree in Criminal Justice or a Bachelor of Science Degree in Forensic Science.

**Total Program Credits: 24**

**Matriculation Requirements:**
1. Admitted to a bachelor degree program at UVU

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSCI 3400</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3500</td>
<td>Footwear Impression Evidence (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or FSCI 3520</td>
<td>Tire Imprint Evidence</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3540</td>
<td>Forensic Trace Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3700</td>
<td>Fingerprint Examination I</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3720</td>
<td>Fingerprint Examination II</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3800</td>
<td>Computer Forensics and Cyber Crime</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Requirements:**

Complete 6 credits from any upper-division Criminal Justice or Forensic Science courses or other approved electives

**Graduation Requirements:**

1. Overall grade point average of 2.0 (C) or above, with completion of each Criminal Justice class with a "C-" or higher.

**Forensic Science, Minor Careers**

For those trained in forensic science, opportunities exist in local, county, and state law enforcement crime labs, commercial drug screening laboratories, Fingerprint Specialist, Criminalist, Corporate Security Forensic Scientist, Trace Evidence Examiner, Quality Assurance Officer, and other areas depending on job availability and opportunities. There are also opportunities in federal laboratories such as Food and Drug Administration; U.S. Postal Service; FBI; Alcohol, Tobacco, and Fire Arms; Department of Justice; Drug Enforcement Administration (DEA); and U.S. Army Criminal Investigation Laboratory.

**Related Careers**
- Forensic Science Technicians
- Criminal Justice and Law Enforcement Teachers, Postsecondary

**Criminal Justice, B.S.**

**Requirements**
Students in Criminal Justice may receive a Certificate of Proficiency in Law Enforcement Academy; an Associate in Science Degree in Criminal Justice, a Bachelor of Science Degree in Criminal Justice, or a Bachelor of Science Degree in Forensic Science.

**Total Program Credits: 120**

---

### General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

Complete the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

### Distribution Courses:

- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Humanities Distribution 3
- Fine Arts Distribution 3
- Social/Behavioral Science 3

**Discipline Core Requirements: 68 Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 1010</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1300</td>
<td>Introduction to Corrections Process</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1330</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1340</td>
<td>Criminal Investigations</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1350</td>
<td>Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>CJ 2330</td>
<td>Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 2350</td>
<td>Laws of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>CJ 3270</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJ 3300</td>
<td>Victimology</td>
<td>3</td>
</tr>
<tr>
<td>CJ 3400</td>
<td>Drugs and Crime</td>
<td>3</td>
</tr>
<tr>
<td>CJ 4060</td>
<td>Special Problems in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 4160</td>
<td>Constitutional Criminal Rights</td>
<td>3</td>
</tr>
<tr>
<td>CJ 4200</td>
<td>Ethical Issues in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 4250</td>
<td>Criminal Justice Career Strategies</td>
<td>2</td>
</tr>
<tr>
<td>CJ 470G</td>
<td>Comparative Criminal Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>CJ 481R</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>CJ 4880</td>
<td>Qualitative Research Methods in Criminal Justice</td>
<td></td>
</tr>
<tr>
<td>CJ 4990</td>
<td>Criminal Justice Capstone Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete 15 credits from the following Criminal Justice Electives (9 must be upper-division): 15

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 1390</td>
<td>Police Field Operations (3.0)</td>
<td></td>
</tr>
</tbody>
</table>
Criminal Justice/Law Enforcement

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 1800</td>
<td>POST Module I (7.0)</td>
</tr>
<tr>
<td>CJ 1810</td>
<td>POST Module II (11.0)</td>
</tr>
<tr>
<td>CJ 2110</td>
<td>Security Management and Loss Prevention (3.0)</td>
</tr>
<tr>
<td>CJ 290R</td>
<td>Law Society (must be taken for a maximum of 2 credits (1.0)</td>
</tr>
<tr>
<td>CJ 3020</td>
<td>Criminal Justice Management (3.0)</td>
</tr>
<tr>
<td>CJ 3040</td>
<td>Community Policing (3.0)</td>
</tr>
<tr>
<td>CJ 3060</td>
<td>Corrections in the Community (3.0)</td>
</tr>
<tr>
<td>CJ 3100</td>
<td>Criminal Profiling (3.0)</td>
</tr>
<tr>
<td>CJ 3140</td>
<td>Corrections Law (3.0)</td>
</tr>
<tr>
<td>CJ 3320</td>
<td>Crime and Gender (3.0)</td>
</tr>
<tr>
<td>CJ 3360</td>
<td>Prisons--Contemporary Issues and Dilemmas (3.0)</td>
</tr>
<tr>
<td>CJ 3390</td>
<td>Traffic Theory (3.0)</td>
</tr>
</tbody>
</table>

Elective Requirements: 17 Credits

Complete any 1000 course or higher 17

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits with 40 semester credits from 3000- and 4000-level courses.
2. Overall grade point average of 2.0 (C) or above. Must have a grade of C- or higher in all core and elective requirements.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Criminal Justice, B.S.

Careers

For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States Marshall, Internal Revenue officer, Border Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

Related Careers

- Managers, All Other
- Criminal Justice and Law Enforcement Teachers, Postsecondary
- First-Line Supervisors of Police and Detectives

Forensic Science, B.S.

Requirements

Students in Criminal Justice may receive a Certificate of Proficiency in Law Enforcement Academy, an Associate in Science Degree in Criminal Justice, a Bachelor of Science Degree in Criminal Justice, or a Bachelor of Science Degree in Forensic Science.

Total Program Credits: 121

General Education Requirements: 38 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Forensic Science Foundational Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 1330</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1340</td>
<td>Criminal Investigations</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1350</td>
<td>Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>CJ 2350</td>
<td>Laws of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3400</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3880</td>
<td>Expert Witness Professional Practices</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1015</td>
<td>General Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1215</td>
<td>Principles of Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1225</td>
<td>Principles of Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 2310</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2315</td>
<td>Organic Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 2325</td>
<td>Organic Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 2320</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2010</td>
<td>College Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2015</td>
<td>College Physics I Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 1210</td>
<td>Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 2040</td>
<td>Principles of Statistics</td>
<td>4</td>
</tr>
<tr>
<td>FSCI 3500</td>
<td>Footwear Impression Evidence</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3520</td>
<td>Tire Imprint Evidence (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3540</td>
<td>Forensic Trace Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3700</td>
<td>Fingerprint Examination I</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3820</td>
<td>Crime Scene Investigation Techniques I</td>
<td>3</td>
</tr>
</tbody>
</table>
Elective Requirements: 23 Credits

Complete 15 credits from the following courses:

- FSCI 3500 Footwear Impression Evidence (3.0)
- FSCI 3520 Tire Imprint Evidence (3.0)
- FSCI 3550 Forensic Trace Analysis II (3.0)
- FSCI 3720 Fingerprint Examination II (3.0)
- FSCI 3740 Fingerprint Examination III (3.0)
- FSCI 3780 Bloodstain Pattern Analysis (3.0)
- FSCI 3800 Computer Forensics and Cyber Crime (3.0)
- FSCI 3850 Marijuana Identification Certificate (3.0)
- FSCI 4400 Forensic Chemistry (3.0)
- FSCI 440L Forensic Chemistry Laboratory (1.0)
- FSCI 443R Directed Research in Forensic Science (2.0)
- FSCI 481R Forensic Science Internship (1.0)
- CHEM 3000 Analytical Chemistry (2.0)
- CHEM 3005 Analytical Chemistry Laboratory (2.0)
- CHEM 3600 Biological Chemistry (3.0)
- CHEM 3605 Biochemistry Laboratory (1.0)
- CHEM 3700 Forensic Analytical Chemistry (3.0)
- CHEM 4000 Instrumental Analysis (2.0)
- CHEM 4005 Instrumental Analysis Laboratory (2.0)
- ENGL 3300 Collaborative Communication for Technology Professions (3.0)
- GEO 3400 Forensic Geology (4.0)

Complete 8 credits of any courses 3000 or higher

Graduation Requirements:
1. Completion of a minimum of 121 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Forensic Science, B.S.

Careers

For those trained in Forensic Science, opportunities exist in local, county and state law enforcement crime labs, commercial drug screening laboratories, Fingerprint Specialist, Criminalist, Corporate Security Forensic Scientist, Trace Evidence Examiner, Quality Assurance Officer, and other areas depending on job availability and opportunities. There are also opportunities in federal laboratories such as Food and Drug Administration; U.S. Postal Service; FBI; Alcohol, Tobacco, and Fire Arms; Department of Justice; Drug Enforcement Administration (DEA); and U.S. Army Criminal Investigation Laboratory.

Related Careers
- Forensic Science Technicians
- Criminal Justice and Law Enforcement Teachers, Postsecondary
Course Catalog 2015-2016

Culinary Arts Institute

Mission Statement

The Culinary Arts Institute is a practical teaching institute that provides opportunities and promotes student success while meeting regional educational needs.

We are committed to excellence and strive to provide a learning environment that maximizes student talent and potential both personally and professionally.

The Culinary Arts Institute

Mailing Address:
The Culinary Arts Institute at Canyon Park
661 East Timpanogos Parkway
Orem, UT 84097
Mail Stop 263
Email: culinaryarts@uvu.edu
Web Address: uvu.edu/ca
Facebook: Culinary Arts Institute at UVU

• Advisor: Wendy Farnsworth
• Telephone: (801) 863-6780 direct
• Telephone: (801) 863-8914 main office
• Email: farnswe@uvu.edu

Program

The Culinary Arts Institute (CAI) at UVU provides premier training for students interested in a career in professional cooking or baking. The program offers small, hands-on classes, focusing on individualized attention and development. The Culinary Arts Institute provides experience, through “engaged” industry based learning.

The Culinary Arts Institutes comprehensive course of study covers several service areas; including not only learning how to cook and bake, but key requirement to success such as: customer service, business and finance management, marketing and advertising. CAI students learn how to apply these skills to a variety of food service establishments and operations. The practical and theoretical instruction covers such areas as food service safety and sanitation, professional dining room service, menu planning, nutrition and purchasing-storeroom management procedures.

While studying Culinary Arts at UVU, students gain a solid understanding of the food and beverage industry and learn the newest techniques in food and baking production using state-of-the-art equipment in our kitchen labs. The CAI also applies real world training as students run, full service, fine dining operations at Restaurant Forte, located in the UCCU Center and the Canyon Park Café located the Culinary Arts Institute in North Orem. These industry based learning models allow students to work with a wide range of foods while directly interacting with the public. In order to get the full breadth of running their own food service establishment, students work in a variety of functions including waiting tables, purchasing, preparing food, hosting, and supervising as the head chef.

Total Program Credits: 68

Matriculation Requirements:

1. Completion of the following courses with a grade of C- or better. CA 1160; CA 1490 (including ServSafe certification); HM 1010; MAT 0990; ENGH 1000.
2. Acceptance into the Culinary Arts Institute by completion of application process (see Advisor for specific details).
3. Overall GPA: 2.0 or better.

General Education Requirements: 16 Credits

ENGLISH

ENGL 1010 Introduction to Writing 3

MATHEMATICS

ACC 2010 Financial Accounting 3

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE

PHIL 2050 Ethics and Values (or any approved Humanities/Fine Arts/Foreign Language) 3

SOCIAL AND BEHAVIORAL SCIENCE
**Culinary Arts Institute**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior (or any approved Social and Behavioral Science)</td>
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**BIOLOGY OR PHYSICAL SCIENCE**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 1150</td>
<td>Nutrition and Food Service</td>
<td>3</td>
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**PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 1490</td>
<td>Food Service Sanitation (or PES 1097, or HLTH 1100)</td>
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</table>

**Discipline Core Requirements:** 52 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CA 1120</td>
<td>Cooking Skills Development</td>
<td>4.5</td>
</tr>
<tr>
<td>CA 1140</td>
<td>Professional Dining Room Services</td>
<td>1</td>
</tr>
<tr>
<td>CA 1160</td>
<td>Culinary Math</td>
<td>1</td>
</tr>
<tr>
<td>CA 1170</td>
<td>Pastry and Baking Skills</td>
<td>4.5</td>
</tr>
<tr>
<td>CA 1180</td>
<td>Professional Kitchen Garde Manger</td>
<td>4.5</td>
</tr>
<tr>
<td>CA 1230</td>
<td>Professional Kitchen I--Cooking</td>
<td>4.5</td>
</tr>
<tr>
<td>CA 1260</td>
<td>Culinary Spanish</td>
<td>1</td>
</tr>
<tr>
<td>CA 1310</td>
<td>Purchasing and Storeroom Management</td>
<td>3</td>
</tr>
<tr>
<td>CA 1320</td>
<td>Culinary Management</td>
<td>3</td>
</tr>
<tr>
<td>CA 2120</td>
<td>Professional Kitchen II--Restaurant</td>
<td>4.5</td>
</tr>
<tr>
<td>CA 2130</td>
<td>Advanced Pastry Baking</td>
<td>4.5</td>
</tr>
<tr>
<td>CA 2450</td>
<td>Menu Design</td>
<td>2</td>
</tr>
<tr>
<td>CA 282R</td>
<td>Culinary Arts Internship</td>
<td>8</td>
</tr>
<tr>
<td>HM 1010</td>
<td>Introduction to Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HM 3640</td>
<td>Food and Beverage Controls</td>
<td>3</td>
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</table>

**Graduation Requirements:**

1. Completion of a minimum of 68 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade below a "C-" in culinary arts or other discipline core courses.
3. Residency hours- minimum of 20 credit hours through course attendance at UVU.

Note: Students are responsible for completing all prerequisite courses.

**Culinary Arts, A.A.S.**

**Careers**

Careers:

As a result of more working adults with growing disposable incomes, the culinary arts field continues to grow. Occupations for food preparation and baking/pastry chefs are available in a variety of industries.

Average income for graduates is approximately $28,000 to $36,000 and higher. A chef’s income can range from $44,000 to $46,000 (income figures are based on graduate placement). The national Restaurant Association notes the average salary across the country for chefs is $64,000.

Graduates of the Culinary Arts institute of UVU are in high demand and are recruited by owners and managers of well-known facilities throughout the country.

Restaurants

Hotels

Private clubs

Personal Chef

Schools and hospitals

Government dining facilities

Industrial dining facilities

**Related Careers**

- Chefs and Head Chefs
- First-Line Supervisors of Food Preparation and Serving Workers
- Cooks, Private Household
- Cooks, Restaurant
- Cooks, All Other

Resort areas

Cruise ships

Recipe writer

Food critic

Food stylist

Utah Valley University  Course Catalog 2015-2016  227
Mission Statement

The mission of Utah Valley University Department of Dance is to foster academic and artistic excellence through an intensive technical and reflective study of dance. Anchored in a common core curriculum with several areas of emphasis, our program provides a rich and stimulating environment where students cultivate their technical, aesthetic, creative, and scholarly potential. We value superior teaching which promotes dance as an artistic and cultural expression that has the power to enrich and transform the individual, community, and society.

Dance

- Advisor:
  - Brianna Larson
  - Telephone: 801-863-6867

- Ballet:
  - Jacqueline Colledge
  - Email: colledja@uvu.edu

- Ballroom Dance:
  - Paul Winkelman
  - Email: Paul.Winkelman@uvu.edu

- Dance Education:
  - Amy Markgraf Jacobson
  - Email: amy.markgraf@uvu.edu

- Modern Dance:
  - Amy Markgraf Jacobson
  - Email: amy.markgraf@uvu.edu

Course Descriptions

Dance

Degrees & Programs

Dance, A.S.

Requirements

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. In addition to career training, the Department of Dance provides opportunities for all interested students to explore the many forms of dance as elective and/or general education credit. The study of dance offers personal and cultural enrichment for majors and non-majors alike and allows students to augment their physical and theoretical skills as they study dance in relationship to the self, society, and other arts and disciplines.

Total Program Credits: 62

<table>
<thead>
<tr>
<th>Program</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2700 US History to 1877 (3.0) and HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740 US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000 American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100 American National Government (3.0)</td>
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</table>
Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
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<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
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</tr>
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</table>

Distribution Courses:

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1010</td>
<td>Biology (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2010</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2010</td>
<td>Additional Biology or Physical</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Science (ZOOL 2010 recommended)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>DANC 2110</td>
<td>Orientation to Dance</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 23 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DANC 1160</td>
<td>Music for Dancers</td>
<td>1</td>
</tr>
<tr>
<td>DANC 127R</td>
<td>Ballet Technique I (2 semesters)</td>
<td>6</td>
</tr>
<tr>
<td>DANC 1330</td>
<td>Studio Workshop--Creative Process in</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Dance</td>
<td></td>
</tr>
<tr>
<td>DANC 143R</td>
<td>Modern Dance Technique and Theory I</td>
<td>3</td>
</tr>
<tr>
<td>DANC 144R</td>
<td>Modern Dance Technique and Theory I</td>
<td>3</td>
</tr>
<tr>
<td>DANC 1510</td>
<td>Intermediate Jazz Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 1610</td>
<td>Dance Conditioning</td>
<td>1</td>
</tr>
<tr>
<td>DANC 2330</td>
<td>Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>DANC 2340</td>
<td>Composition</td>
<td>2</td>
</tr>
<tr>
<td>DANC 265R</td>
<td>Fundamentals of Movement</td>
<td>2</td>
</tr>
<tr>
<td>DANC 2670</td>
<td>Introduction to Laban Studies</td>
<td>2</td>
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</table>

Elective Requirements: 4 Credits

Complete 4 credits from the following:

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<tr>
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<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 1520</td>
<td>Folk Dance I (1.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 1530</td>
<td>Folk Dance II (1.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 1540</td>
<td>Clogging I (1.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 1560</td>
<td>African Dance I (1.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 1580</td>
<td>Tap Dance I (1.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 1620</td>
<td>Polynesian Dance I (1.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 1700</td>
<td>American Social Dance I (1.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 1710</td>
<td>International Ballroom Dance I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 1720</td>
<td>Latin Ballroom Dance I (1.0)</td>
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</tr>
<tr>
<td>DANC 1780</td>
<td>Country Western Dance I (1.0)</td>
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</tr>
<tr>
<td>DANC 1790</td>
<td>Country Western Dance II (1.0)</td>
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</tr>
<tr>
<td>DANC 221R</td>
<td>Pointe II (1.0)</td>
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<tr>
<td>DANC 2250</td>
<td>Character Dance I (1.0)</td>
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</tr>
<tr>
<td>DANC 2260</td>
<td>Character Dance II (1.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 227R</td>
<td>Ballet Technique II (3.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 243R</td>
<td>Modern Dance Technique and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Theory II (3.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 244R</td>
<td>Modern Dance Technique and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Theory II (3.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 247R</td>
<td>Repertory (1.0)</td>
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<tr>
<td>DANC 250R</td>
<td>Advanced Jazz Dance (2.0)</td>
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<tr>
<td>DANC 2560</td>
<td>African Dance II (1.0)</td>
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</tr>
<tr>
<td>DANC 270R</td>
<td>American Social Dance II (1.0)</td>
<td></td>
</tr>
</tbody>
</table>

Dance, A.S.

Careers

Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), professional performers and choreographers, dance historian and critics, administrators, dance therapists, professionals in the field of somatics, researchers, notators, movement analysts, private studio owners, and health and fitness consultants.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Dancers
- Choreographers

Dance - Ballet Emphasis, B.F.A.

Requirements

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. In addition to career training, the Department of Dance provides opportunities for all interested students to explore the many forms of dance as elective and/or general education credit. The study of dance offers personal and cultural enrichment for majors and non-majors alike and allows students to augment their physical and theoretical skill as they study dance in relationship to the self, society, and other arts and disciplines.

Total Program Credits: 120

Matriculation Requirements:

1. Completion DANC 2110, and DANC 2330 with B- or higher.
2. Ballet emphasis: Completion of DANC 227R (2 semesters), with a grade of B- or higher.
3. Modern emphasis: Completion of DANC 143R and DANC 144R with a B- or higher.
4. Pass audition, interview, and portfolio review with faculty members.
5. Cumulative GPA of 2.75 or higher.

Graduation Requirements:

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
</tbody>
</table>
## Dance

**Course Catalog 2015-2016**

### ENGL 2010
Intermediate Writing--Humanities/Social Sciences (3.0)

### ENGL 2020
Intermediate Writing--Science and Technology

Choose one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
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</tr>
</tbody>
</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and</td>
<td>HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
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**Distribution Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1010</td>
<td>General Biology (strongly recommended for Biology distribution)</td>
<td>3</td>
</tr>
<tr>
<td>DANC 2110</td>
<td>Orientation to Dance (Fine Arts)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 1090</td>
<td>Introduction to Human Anatomy and Physiology (Fulfills additional Biology or Physical Science)</td>
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</tbody>
</table>

**Discipline Core Requirements:**

- **38 Credits**
  - **DANC 127R** Ballet Technique I (6)
  - **or** **DANC 227R** Ballet Technique II (3.0)
  - **DANC 143R** Modern Dance Technique and Theory I (3)
  - **DANC 144R** Modern Dance Technique and Theory I (3)
  - **DANC 1610** Dance Conditioning (1)
  - **DANC 2330** Improvisation (1)
  - **DANC 2340** Composition (2)
  - **DANC 265R** Fundamentals of Movement (2)
  - **DANC 2670** Introduction to Laban Studies (2)
  - **DANC 3140** Dance Production and Lighting (2)
  - **DANC 356G** World Dance Forms (3)
  - **DANC 3630** Dance History (3)
  - **DANC 3680** Dance Kinesiology (4)
  - **DANC 4350** Senior Capstone I (1)
  - **DANC 4360** Senior Capstone II (2)
  - **DANC 4880** Current Issues in Dance (3)

**Emphasis Requirements:**

- **42 Credits**
  - **DANC 221R** Pointe II (2 semesters required) (1.0) (2)
  - **or** **DANC 222R** Ballet Technique and Theory II for Men (2 semesters required) (1.0)
  - **DANC 2250** Character Dance I (1.0) (1)
  - **DANC 3150** Music for Ballet Dancers (2.0) (2)
  - **DANC 321R** Pointe III (2 semesters required) (1.0) (2)
  - **or** **DANC 322R** Ballet Technique and Theory III for Men (2 semesters required) (1.0)
  - **DANC 327R** Ballet Technique III (2 semesters required) (3.0)
  - **DANC 419R** Pointe IV (4 semesters required) (1.0) (4)
  - **DANC 423R** Pointe V (4 semesters required) (1.0)
  - **or** **DANC 422R** Ballet Technique for Men (4 semesters required) (1.0)
  - **DANC 424R** Pas de deux (2 semesters required) (1.0) (2)
  - **DANC 425R** Repertory Ballet Ensemble (2 semesters required total) (3.0) (6)
  - **or** **DANC 429R** Utah Regional Ballet Repertory (2 semesters required total) (3.0)
  - **DANC 3340** Ballet Choreography (2.0) (2)
  - **DANC 427R** Ballet Technique IV (4 semesters required total) (3.0) (12)
  - **or** **DANC 428R** Ballet Technique V (4 semesters required total) (3.0)
  - **DANC 4260** Ballet Pedagogy (3)

**Emphasis Elective Requirements:**

- **5 Credits**
  - Choose 5 hours from the following:
    - **DANC 1160** Music for Dancers
    - **DANC 1510** Intermediate Jazz Dance (1.0)
    - **or** **DANC 250R** Advanced Jazz Dance (2.0)
    - **DANC 1700** American Social Dance I (1.0)
    - **DANC 1710** International Ballroom Dance I (1.0)
    - **DANC 2260** Character Dance II (1.0) (1)
    - **DANC 3610** Intermediate Dance Conditioning and Injury Prevention (2.0)
    - **DANC 365R** Advanced Fundamentals of Movement (2.0)
    - **DANC 3670** Movement Analysis (3.0)
    - **DANC 425R** Repertory Ballet Ensemble (repeatable for 9 semesters) (3.0)
    - **DANC 429R** Utah Regional Ballet Repertory (repeatable for 9 semesters) (3.0)
    - **THEA 1033** Acting I (3.0)

**Any DANC course not previously taken.**

### Graduation Requirements:

1. Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.
2. No grade lower than a C in required dance courses.
3. Overall grade point average of 2.75 or above.
4. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.
Dance - Ballet Emphasis, B.F.A.

**Careers**

Careers:

Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), professional performers and choreographers, dance historian and critics, administrators, dance therapists, professionals in the field of somatics, researchers, notators, movement analysts, private studio owners, and health and fitness consultants.

**Related Careers**

- Art, Drama, and Music Teachers, Postsecondary
- Dancers
- Choreographers

Dance - Ballroom Dance Emphasis, B.S.

**Requirements**

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. In addition to career training, the Department of Dance provides opportunities for all interested students to explore the many forms of dance as elective and/or general education credit. The study of dance offers personal and cultural enrichment for majors and non-majors alike and allows students to augment their physical and theoretical skill as they study dance in relationship to the self, society, and other arts and disciplines.

**Total Program Credits: 120**

### Matriculation Requirements:

1. Completion of DANC 270R, DANC 271R, DANC 272R, DANC 2110, and DANC 2330 with a grade of B- or better.
2. Pass audition, interview, and portfolio review with faculty members.
3. Cumulative G.P.A. of 2.75 or higher.

### General Education Requirements: 35 Credits

- **ENGL 1010** Introduction to Writing 3
- **ENGL 2010** Intermediate Writing--Humanities/Social Sciences 3
- or **ENGL 2020** Intermediate Writing--Science and Technology (3.0)

Choose one of the following: 3

- **MATH 1030** Quantitative Reasoning (3.0)
- **MATH 1040** Introduction to Statistics (3.0)
- **MATH 1050** College Algebra (4.0)

Choose one of the following: 3

- **HIST 2700** US History to 1877 (3.0)
- **HIST 2710** US History since 1877 (3.0)
- **HIST 1700** American Civilization (3.0)
- **POLS 1000** American Heritage (3.0)
- **POLS 1100** American National Government (3.0)
- **HIST 1740** US Economic History (3.0)

Complete the following:

- **PHIL 2050** Ethics and Values 3
- **HLTH 1100** Personal Health and Wellness 2
- or **PES 1097** Fitness for Life (2.0)

### Distribution Courses:

- **BIOL 1010** General Biology (strongly recommended for Biology Distribution course) 3
- **DANC 2110** Orientation to Dance (Fine Arts) 3
- **H destinies Distribution** 3
- **Physical Science** 3
- **Social/Behavioral Science** 3
- **ZOOL 1090** Introduction to Human Anatomy and Physiology (Fulfills additional Biology or Physical Science) 3

**Discipline Core Requirements:** 38 Credits

- **DANC 127R** Ballet Technique I 6
- or **DANC 227R** Ballet Technique II (3.0)
- **DANC 143R** Modern Dance Technique and Theory I 3
- **DANC 144R** Modern Dance Technique and Theory I 3
- **DANC 1610** Dance Conditioning 1
- **DANC 2330** Improvisation 1
- **DANC 2340** Composition 2
- **DANC 265R** Fundamentals of Movement 2
- **DANC 2670** Introduction to Laban Studies 2
- **DANC 3140** Dance Production and Lighting 2
- **DANC 356G** World Dance Forms 3
- **DANC 3630** Dance History 3
- **DANC 3680** Dance Kinesiology 4
- **DANC 4350** Senior Capstone I 1
- **DANC 4360** Senior Capstone II 2
- **DANC 4880** Current Issues in Dance 3

**Emphasis Requirements:** 39 Credits

- **DANC 1160** Music for Dancers 1
- **DANC 1510** Intermediate Jazz Dance 1
- or **DANC 250R** Advanced Jazz Dance (2.0)
- **DANC 270R** American Social Dance II 1
- **DANC 370R** American Social Dance III (2 semesters required) (1.0) 2
- **DANC 271R** International Ballroom Dance II 1
- **DANC 371R** International Ballroom Dance III (2 semesters required) (1.0) 2
- **DANC 471R** International Ballroom Dance IV (2 semesters required) (2.0) 4
- **DANC 272R** Latin Ballroom Dance II 1
- **DANC 372R** Latin Ballroom Dance III (2 semesters required) (1.0) 2
- **DANC 472R** Latin Ballroom Dance IV (2 semesters required) (2.0) 4
- **DANC 3730** American Social Dance Teaching Methods 2
- **DANC 4740** International Ballroom Dance Teaching Methods 3
- or **DANC 4750** Latin Ballroom Dance Teaching Methods (3.0)
- **DANC 376R** Ballroom Dance Company Back-up Tour Team (2.0) 4
- or **DANC 476R** Ballroom Dance Company Tour Team (3.0)

Utah Valley University

Course Catalog 2015-2016 231
### Dance - Ballroom Dance Emphasis, B.S.  
#### Careers

Careers:  
- Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), professional performers and choreographers, dance historian and critics, administrators, dance therapists, professionals in the field of somatics, researchers, notators, movement analysts, private studio owners, and health and fitness consultants.

#### Related Careers
- Art, Drama, and Music Teachers, Postsecondary
- Dancers
- Choreographers

### Dance - Modern Dance Emphasis, B.F.A.  
#### Requirements

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. In addition to career training, the Department of Dance provides opportunities for all interested students to explore the many forms of dance as elective and/or general education credit. The study of dance offers personal and cultural enrichment for majors and non-majors alike and allows students to augment their physical and theoretical skill as they study dance in relationship to the self, society, and other arts and disciplines.

#### Total Program Credits: 120

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Completion DANC 2110, and DANC 2330 with B- or higher.</td>
</tr>
<tr>
<td>2. Ballet emphasis: Completion of DANC 227R (2 semesters), with a grade of B- or higher.</td>
</tr>
<tr>
<td>3. Modern emphasis: Completion of DANC 143R and DANC 144R with a B- or higher.</td>
</tr>
<tr>
<td>4. Pass audition, interview, and portfolio review with faculty members.</td>
</tr>
<tr>
<td>5. Cumulative GPA of 2.75 or higher.</td>
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</tbody>
</table>

#### General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Choose one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030 Quantitative Reasoning (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040 Introduction to Statistics (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050 College Algebra (4.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Choose one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>and HIST 2710 US History since 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000 American Heritage (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100 American National Government (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740 US Economic History (3.0)</td>
<td>3</td>
</tr>
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</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life (2.0)</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1010 General Biology (strongly recommended for Biology Distribution)</td>
<td>3</td>
</tr>
<tr>
<td>DANC 2110 Orientation to Dance (Fine Arts)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Discipline Core Requirements: 38 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 127R Ballet Technique I</td>
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Emphasis Elective Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DANC 1160</td>
<td>Music for Dancers</td>
<td>1</td>
</tr>
<tr>
<td>DANC 1510</td>
<td>Intermediate Jazz Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 259R</td>
<td>Advanced Jazz Dance (2.0)</td>
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<tr>
<td>DANC 243R</td>
<td>Modern Dance Technique and Theory II</td>
<td>3</td>
</tr>
<tr>
<td>DANC 244R</td>
<td>Modern Dance Technique and Theory II</td>
<td>3</td>
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<tr>
<td>DANC 3160</td>
<td>Dance Accompaniment</td>
<td>2</td>
</tr>
<tr>
<td>DANC 3330</td>
<td>Modern Dance Workshop</td>
<td>2</td>
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<tr>
<td>DANC 3350</td>
<td>Choreography</td>
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<tr>
<td>DANC 3400</td>
<td>Dance in the Elementary School</td>
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<tr>
<td>DANC 341R</td>
<td>Modern Dance Technique and Theory III</td>
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<tr>
<td>DANC 342R</td>
<td>Modern Dance Technique and Theory III</td>
<td>3</td>
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<tr>
<td>DANC 3450</td>
<td>Modern Dance Teaching Methods</td>
<td>3</td>
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<tr>
<td>DANC 346R</td>
<td>Synergy Dance Company</td>
<td>3</td>
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<tr>
<td>DANC 365R</td>
<td>Advanced Fundamentals of Movement</td>
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<tr>
<td>DANC 3670</td>
<td>Movement Analysis (3.0)</td>
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<td>DANC 411R</td>
<td>Modern Dance Technique and Theory IV</td>
<td>3</td>
</tr>
<tr>
<td>DANC 442R</td>
<td>Modern Dance Technique and Theory IV</td>
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Emphasis Requirements: 36 Credits

Choose 11 credits from the following list: 11 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DANC 1580</td>
<td>Tap Dance I (1.0)</td>
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<tr>
<td>DANC 1600</td>
<td>Hip-Hop II (1.0)</td>
<td></td>
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<tr>
<td>DANC 1700</td>
<td>American Social Dance I (1.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 1710</td>
<td>International Ballroom Dance I (1.0)</td>
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<tr>
<td>DANC 1720</td>
<td>Latin Ballroom Dance I (1.0)</td>
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<tr>
<td>DANC 2560</td>
<td>African Dance II (1.0)</td>
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<tr>
<td>DANC 327R</td>
<td>Ballet Technique III (3.0)</td>
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<tr>
<td>DANC 3610</td>
<td>Intermediate Dance Conditioning and Injury Prevention (2.0)</td>
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<tr>
<td>DANC 365R</td>
<td>Advanced Fundamentals of Movement (2.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 3670</td>
<td>Movement Analysis (3.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 442R</td>
<td>Modern Dance Technique and Theory IV (3.0)</td>
<td></td>
</tr>
<tr>
<td>DANC 446R</td>
<td>Contemporary Dance Ensemble (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.
2. No grade lower than a C in required dance courses.
3. Overall grade point average of 2.75 or above.
4. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
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6. Successful completion of at least one Global/Intercultural course.

Dance - Modern Dance Emphasis, B.F.A.

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Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Dancers
- Choreographers

Dance Education, B.S.

Requirements

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. In addition to career training, the Department of Dance provides opportunities for all interested students to explore the many forms of dance as elective and/or general education credit. The study of dance offers personal and cultural enrichment for majors and non-majors alike and allows students to augment their physical and theoretical skill as they study dance in relationship to the self, society, and other arts and disciplines.

Total Program Credits: 125

Matriculation Requirements:

1. Completion of DANC 1160, DANC 143R, DANC 144R, DANC 1610, and DANC 2330 with B- or higher.
2. Pass audition, interview, and portfolio review with faculty members.

Education Department matriculation requirements:

1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass LiveScan Criminal Background Check.

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing–Humanities/Social Sciences (3.0)</td>
<td></td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing–Science and Technology</td>
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</tr>
</tbody>
</table>
Complete one of the following: 3

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<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (recommended for Social Science majors) (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following: 3

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<tr>
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</thead>
<tbody>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
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</table>

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</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
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</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
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</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL 1010</td>
<td>General Biology</td>
<td>3</td>
</tr>
<tr>
<td>DANC 2110</td>
<td>Orientation to Dance</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
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<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 1090</td>
<td>Introduction to Human Anatomy and Physiology (Strongly recommended for additional Biology or Physical Science)</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 90 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>DANC 1160</td>
<td>Music for Dancers</td>
<td>1</td>
</tr>
<tr>
<td>DANC 127R</td>
<td>Ballet Technique I (3.0)</td>
<td></td>
</tr>
<tr>
<td>or DANC 227R</td>
<td>Ballet Technique II</td>
<td>3</td>
</tr>
<tr>
<td>DANC 143R</td>
<td>Modern Dance Technique and Theory I</td>
<td>3</td>
</tr>
<tr>
<td>DANC 144R</td>
<td>Modern Dance Technique and Theory I</td>
<td>3</td>
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<tr>
<td>DANC 1610</td>
<td>Dance Conditioning</td>
<td>1</td>
</tr>
<tr>
<td>DANC 2330</td>
<td>Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>DANC 2340</td>
<td>Composition</td>
<td>2</td>
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<tr>
<td>DANC 243R</td>
<td>Modern Dance Technique and Theory II</td>
<td>3</td>
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<tr>
<td>DANC 244R</td>
<td>Modern Dance Technique and Theory II</td>
<td>3</td>
</tr>
<tr>
<td>DANC 265R</td>
<td>Fundamentals of Movement</td>
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<tr>
<td>or DANC 2670</td>
<td>Introduction to Laban Studies (2.0)</td>
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<tr>
<td>DANC 270R</td>
<td>American Social Dance II</td>
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<td>DANC 3140</td>
<td>Dance Production and Lighting</td>
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<td>DANC 3160</td>
<td>Dance Accompaniment</td>
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<td>Modern Dance Workshop</td>
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<td>Choreography</td>
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<td>DANC 341R</td>
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<tr>
<td>DANC 342R</td>
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</table>

Graduation Requirements:

1. Completion of a minimum of 125 semester credits.
2. No grade lower than a C in required dance courses.
3. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
4. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Dance Education, B.S.

Careers

Careers:

Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), professional performers and choreographers, dance historian and critics, administrators, dance therapists, professionals in the field of somatics, researchers, notators, movement analysts, private studio owners, and health and fitness consultants.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Dancers
- Choreographers
Dental Hygiene

Mission Statement
The Department of Dental Hygiene offers an Associate in Applied Science in Dental Hygiene. It also offers a Bachelor Completion degree in Dental Hygiene. The Dental Hygiene AAS program prepares graduates to take the Dental Hygiene National Boards, the Western Regional Dental Hygiene Clinical Boards, the Western Regional Written and Clinical Local Anesthesia Boards and to apply for state licensure. Completion of the program prepares graduates to enter private practice as competent dental hygiene professionals.

The program is competency based and student centered in nature. The program focuses on developing the knowledge and skill needed in dental hygiene while it strives to develop the students’ problem solving and critical thinking skills, communication skills and teaching/education skills. The curriculum also develops student professionalism and promotes lifelong learning, community awareness, engagement and service.

Dental Hygiene
- Administrative Support: Joyce Henderson
- Office: HP 142d
- Telephone: 801-863-7536
- Email: henderjo@uvu.edu
- Mail Stop: 238
- Advisor: George Veit
- Office: HP 142d
- Telephone: 801-863-7592
- Email: veitge@uvu.edu
- Clinic Coordinator: Christina Veit
- Office: HP 142c
- Telephone: 801-863-7551
- Email: veitch@uvu.edu

The AAS program is a competitive admission program. Please refer to our department website for a complete description of our application process and requirements. Call our office with any questions.

You must apply and be officially accepted into our program to declare yourself a dental hygiene major and begin taking Dental Hygiene courses.

The AAS curriculum includes a total of 81 credits including prerequisites. The prerequisite are:
- ENGL 1010 College Writing
- CHEM 1110 Chemistry for the Health Professions
- ZOOL 2320 Human Anatomy Lecture
- ZOOL 2325 Human Anatomy Lab
- ZOOL 2420 Human Physiology
- ZOOL 2425 Human Physiology Lab
- MATH 1050 Intermediate Algebra.

Please be aware that some of the above prerequisites have their own prerequisites. Please contact the Biology Department for information on their prerequisites for the Human Anatomy and Human Physiology courses and the Chemistry Department for their prerequisites for CHEM 1110

These pre-requisite courses must be completed in order to apply to the program and must be taken before the first semester of courses.

The Bachelor Completion Program includes a total of 120 credits. It has a competitive admission process as well. It builds on the credits received in the AAS program. It offers several tracts of 12 credits each. Please refer to our department website for information concerning the application process, required courses and other important information. Bear in mind that students need their two year degree in dental hygiene prior to matriculating into this program.

Advisory Committee:
Melinda Reich RDH AAS, Christina Veit RDH BS MS, George Veit DDS MS, Rhella Christensen RDH PHD, Alexander Larsen DDS, Richard Reiser DDS MS, Lauren Geis RDH AAS.

Career Opportunities
Dental hygienists, under the supervision of licensed dentists, provide preventive dental care to patients such as dental prophylaxis, topical fluoride applications, pit and fissure sealants, administration of local anesthetics, dental radiographs and teaching patients plaque control procedures. Dental hygienists work in private dental practices as well as in school systems, public health agencies, Federal and State agencies, hospitals, nursing homes, the World Health Organization, and foreign governments.

Program Overview
Admission to UVU does not constitute admission to the Dental Hygiene program. Admission to the Dental Hygiene program requires a separate and competitive admission process.

The Department of Dental Hygiene currently offers two programs leading to the following degrees: 1) Associate in Applied Science in Dental Hygiene and 2) Bachelor of Science in Dental Hygiene. Upon successful completion of the AAS program, graduates must pass National, Regional and State Board examinations to apply for licensure.

Applicants to the AAS program, who have questions about their potential for licensure in a particular state, should contact that state’s board of dental hygiene. One important pre-requisite to entering the Bachelor program is an Associate level degree in dental hygiene from an accredited school in the United States. The Associate level degree must be transferrable to the USHE higher education system.

The AAS Dental Hygiene program at UVU has been granted accreditation status by the Commission on Dental Accreditation of the American Dental Association, 211 East Chicago Ave., Chicago, IL 60611, 312-440-4653.

Program Information
Students are required to follow departmental infection control policies and procedures that are based on OSHA regulations and CDC recommendations. They must meet the health and safety requirements participating facilities require of their employees. These requirements must be met prior to enrollment in Dental Hygiene 1010:

1. Documentation of current immunization for Tetanus, Measles, Mumps, Rubella, and Hepatitis B. Students may refuse any immunization by signing a waiver and release from liability. Immunization may also be waived with documentation of acceptable titer or written documentation from a physician of immunization risk. Negative Mantoux for tuberculosis; negative chest x-ray if Mantoux is contra indicated/positive.

2. Current CPR certification (American Heart Association CPR for Health Care Providers, American Red Cross Health Care Provider, or National Safety Council); certification must remain current throughout academic program. Students will have professional liability insurance through UVU’s comprehensive liability insurance policy. This liability insurance is in effect when students are performing within the scope of their assigned clinical/laboratory activities and under the supervision of Department of Dental Hygiene faculty and supervising dentists.

The Department of Dental Hygiene adheres to UVU policy allowing students, staff or faculty with AIDS, ARC, or HIV to participate in all phases of College life within established College policies. The Department will respect the confidentiality of
The Department of Dental Hygiene has a working Dental Hygiene clinic serving the general public. Clinic appointments can be made by calling 801-863-7608.

DEPARTMENT CHAIR
KNIGHT, Dianne Associate Professor

FACULTY
KNIGHT, Dianne Associate Professor
PRESTON, Karen Assistant Professor

Course Descriptions

Dental Hygiene

Degrees & Programs

Dental Hygiene, A.A.S.

Requirements

This is a competitive admission process and has the following pre-requisites that must be taken, and completed, before you are able to apply and begin the first semester of the program. The pre-requisite courses are: MATH 1050, ENGL 1010, CHEM 1110, ZOOL 2320, ZOOL 2325, ZOOL 2420, ZOOL 2425. Please note that some of the above pre-requisites for application to our AAS program have pre-requisites of their own, as well. Please contact the department offering our pre-requisite courses for more information.

Total Program Credits: 81

Matriculation Requirements:

1. Complete MATH 1050, ENGL 1010, CHEM 1110, ZOOL 2320/ZOOL 2325 and ZOOL 2420/ZOOL 2425.

General Education Requirements: 20 Credits

<table>
<thead>
<tr>
<th>ENGLISH</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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<th>MATHEMATICS</th>
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<td>MATH 1050</td>
<td>College Algebra</td>
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<table>
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<th>HUMANITIES/FINE ARTS/FOREIGN LANGUAGE</th>
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<tr>
<td>PHIL 205G</td>
<td>Ethics and Values</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>SOC 1010</td>
<td>Introduction to Sociology</td>
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or

<table>
<thead>
<tr>
<th>SOC 1020</th>
<th>Modern Social Problems (3.0)</th>
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<table>
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<th>BIOLOGY OR PHYSICAL SCIENCE</th>
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<tr>
<td>MICR 2060</td>
<td>Microbiology for Health Professions</td>
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<table>
<thead>
<tr>
<th>NUTR 1020</th>
<th>Foundations of Human Nutrition</th>
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Discipline Core Requirements: 61 Credits

Complete the following:

<table>
<thead>
<tr>
<th>DENT 1010</th>
<th>Dental Hygiene I</th>
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</thead>
<tbody>
<tr>
<td>DENT 1015</td>
<td>Dental Hygiene I Preclinical lab</td>
</tr>
<tr>
<td>DENT 1020</td>
<td>Oral Anatomy and Physiology</td>
</tr>
<tr>
<td>DENT 1030</td>
<td>Dental Materials</td>
</tr>
<tr>
<td>DENT 1040</td>
<td>Dental Hygiene II</td>
</tr>
<tr>
<td>DENT 1045</td>
<td>Dental Hygiene II Clinical</td>
</tr>
<tr>
<td>DENT 1050</td>
<td>Clinical Dental Radiography</td>
</tr>
<tr>
<td>DENT 1055</td>
<td>Clinical Dental Radiography Lab</td>
</tr>
<tr>
<td>DENT 1060</td>
<td>General and Oral Pathology</td>
</tr>
<tr>
<td>DENT 2020</td>
<td>Dental Pharmacology</td>
</tr>
<tr>
<td>DENT 2060</td>
<td>Community Dental Hygiene</td>
</tr>
<tr>
<td>DENT 3010</td>
<td>Dental Hygiene III</td>
</tr>
<tr>
<td>DENT 3015</td>
<td>Dental Hygiene III Clinical</td>
</tr>
<tr>
<td>DENT 3030</td>
<td>Periodontology</td>
</tr>
<tr>
<td>DENT 3040</td>
<td>Dental Hygiene IV</td>
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<tr>
<td>DENT 3045</td>
<td>Dental Hygiene IV Clinical</td>
</tr>
<tr>
<td>DENT 3050</td>
<td>Dental Hygiene Seminar</td>
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</table>

Total: 81 Credits
Dental Hygiene - Business Emphasis, B.S.

**Requirements**

This is a Bachelor Completion program, meaning you must first have a two year degree in dental hygiene to apply and be accepted. Please refer to our website at www.uvu.edu/dental and/or call us at 801-863-7536 or 7592 for specific information about the application process. The BS degree builds on the AAS degree in dental hygiene. The BS degree consists of 120 credit hours and builds on the credits already earned in the AAS program. This degree can be for those who want to: increase their knowledge in their field, move onto an advanced degree, become a hygiene faculty and teach, work for private companies, research work for the government, become a mid-level provider or want to improve their critical thinking and problem solving skills. The degree has emphases in four (4) areas consisting of 12 credit hours each. This degree is aimed at the working professional, as the Dental Hygiene courses are offered on-line. There is no a clinical component. There is also no special fee involved. The first four (4) semesters and AAS pre-requisites are listed. You must have completed your AAS degree before you can matriculate into the BS program. Because applicants will present a variety of previous courses already taken, the following plan is only meant to be a guide. It is based on a student completing the UVU AAS Dental Hygiene Degree. Once you have applied, and are in the BS program, you must speak with the Department of Dental Hygiene advisor to help you customize a plan that works for you.

**Total Program Credits:** 120

**Matriculation Requirements:**

1. Completion of an AA, AS, or AAS degree in dental hygiene from an accredited program with department permission

**General Education Requirements:** 38 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social</td>
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</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
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<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
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</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
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</tr>
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</table>

**Graduation Requirements:**

1. Completion of a minimum of 81 semester credits
2. Overall grade point average of 2.5 or above. All courses must have "C-" or higher.
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements

**Dental Hygiene, A.A.S. Careers**

Dental Hygiene, A.A.S. Careers

**Related Careers**

- Health Specialties Teachers, Postsecondary
- Dental Hygienists

**Dental Hygiene - Business Emphasis, B.S. Distribution Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 1010</td>
<td>General Biology</td>
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<td>CHEM 1110</td>
<td>Elementary Chemistry for the Health Sciences</td>
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<tr>
<td>ZOOL 2320</td>
<td>Human Anatomy</td>
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<td>ZOOL 2325</td>
<td>Human Anatomy Laboratory</td>
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<td>Fine Arts</td>
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<td>COMM 1050</td>
<td>Introduction to Speech Communication</td>
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</tr>
<tr>
<td>SOC 1010</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 1020</td>
<td>Modern Social Problems (3.0)</td>
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</table>

**Discipline Core Requirements:** 70 Credits

**Complete the following:**

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<tr>
<th>Course</th>
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<tr>
<td>DENT 1010</td>
<td>Dental Hygiene I</td>
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<td>DENT 1015</td>
<td>Dental Hygiene I Preclinical lab</td>
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<tr>
<td>DENT 1020</td>
<td>Oral Anatomy and Physiology</td>
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<td>DENT 1030</td>
<td>Dental Materials</td>
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<td>DENT 1040</td>
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<td>DENT 1060</td>
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<td>DENT 2020</td>
<td>Dental Pharmacology</td>
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<td>DENT 3010</td>
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<td>Periodontology</td>
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<td>DENT 3060</td>
<td>Advanced Dental Hygiene Public Health</td>
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<td>DENT 481R</td>
<td>Internship in Dental Hygiene</td>
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<td>MICR 2060</td>
<td>Microbiology for Health Professions</td>
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</tr>
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<td>Microbiology for Health Professions Laboratory</td>
<td>1</td>
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<td>NUTR 1020</td>
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<tr>
<td>PSY 1010</td>
<td>General Psychology</td>
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</table>
### Dental Hygiene

**Emphasis Requirements:**
- **ZOOL 2420** Human Physiology 3
- **ZOOL 2425** Human Physiology Laboratory 1

**Graduation Requirements:**
1. Completion of a minimum of 120 credits semester credits
2. Overall grade point average of 2.5 or above. All courses must have "C-" or higher.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with 10 hours earned during the last 45 hours
4. Completion of GE and specified departmental requirements
5. A minimum of 40 upper division credit hours
6. Successful completion of at least one Global/Intercultural course.

### Dental Hygiene - Business Emphasis, B.S.

**Careers**
Dental Hygiene - Business Emphasis, B.S. Careers

**Related Careers**
- Health Specialties Teachers, Postsecondary
- Dental Hygienists

### Dental Hygiene - Education Emphasis, B.S.

**Requirements**
This is a Bachelor Completion program, meaning you must first have a two year degree in dental hygiene to apply and be accepted. Please refer to our website at [www.uvu.edu/dental](http://www.uvu.edu/dental) and/or call us at 801-863-7536 or 7592 for specific information about the application process. The BS degree builds on the AAS degree in dental hygiene. The BS degree consists of 120 credits and builds on the credits already earned in the AAS program. This degree can be for those who want to: increase their knowledge in their field, move onto an advanced degree, become a hygiene faculty and teach, work for private companies, research work for the government, become a mid-level provider or want to improve their critical thinking and problem solving skills. The degree has emphases in four (4) areas consisting of 12 credit hours each. This degree is aimed at the working professional, as the Dental Hygiene courses are offered on-line. There is no a clinical component. There is also no special fee involved. The first four (4) semesters and AAS pre-requisites are listed. You must have completed your AAS degree before you can matriculate into the BS program. Because applicants will present with a variety of previous courses already taken, the following plan is only meant to be a guide. It is based on a student completing the UVU AAS Dental Hygiene Degree. Once you have applied, and are in the BS program, you must speak with the Department of Dental Hygiene advisor to help you customize a plan that works for you.

**Total Program Credits: 120**

**Matriculation Requirements:**
1. Completion of an AA, AS, or AAS degree in dental hygiene from an accredited program with department permission

**General Education Requirements:** 38 Credits
- **ENGL 1010** Introduction to Writing 3
- **ENGL 2010** Intermediate Writing--Humanities/Social Sciences 3
- **MATH 1050** College Algebra 4

**Complete one of the following:** 3

**Distribution Courses:**
- **BIOL 1010** General Biology 3
- **CHEM 1110** Elementary Chemistry for the Health Sciences 4
- **ZOOL 2320** Human Anatomy 3
- **ZOOL 2325** Human Anatomy Laboratory 1

**Fine Arts**
- **COMM 1050** Introduction to Speech Communication 3
- **SOC 1010** Introduction to Sociology 3
- **PES 1097** Fitness for Life 2

**Discipline Core Requirements:**
- **DENT 1010** Dental Hygiene I 2
- **DENT 1015** Dental Hygiene I Preclinical lab 2
- **DENT 1020** Oral Anatomy and Physiology 4
- **DENT 1030** Dental Materials 2
- **DENT 1040** Dental Hygiene II 3
- **DENT 1045** Dental Hygiene II Clinical 3
- **DENT 1050** Clinical Dental Radiography 1
- **DENT 1055** Clinical Dental Radiography Lab 1
- **DENT 1060** General and Oral Pathology 3
- **DENT 2020** Dental Pharmacology 3
- **DENT 2060** Community Dental Hygiene 3
- **DENT 3010** Dental Hygiene III 2
- **DENT 3015** Dental Hygiene III Clinical 4
- **DENT 3030** Periodontology 3
- **DENT 3040** Dental Hygiene IV 2
- **DENT 3045** Dental Hygiene IV Clinical 4
- **DENT 3050** Dental Hygiene Seminar 1
- **DENT 3060** Advanced Dental Hygiene Public Health 3
- **DENT 3200** Teaching the Dental Hygiene Patient 2
- **DENT 4200** Teaching the Dental Hygiene Student 3
- **DENT 4300** Dental Hygiene Capstone 1
- **DENT 481R** Internship in Dental Hygiene 4
- **MICR 2060** Microbiology for Health Professions 3
- **MICR 2065** Microbiology for Health Professions Laboratory 1

**Complete the following:**
- **PHIL 2050** Ethics and Values (3.0)
- **PHIL 205G** Ethics and Values 3
- **HLTH 1100** Personal Health and Wellness (2.0)
- **PES 1097** Fitness for Life 2

**Complete the following:**
- **HIST 1700** American Civilization (3.0)
- **HIST 2700** US History to 1877 (3.0)
- **HIST 2710** US History since 1877 (3.0)
- **HIST 1740** US Economic History (3.0)
- **POLS 1000** American Heritage (3.0)
- **POLS 1100** American National Government (3.0)
Emphasis Requirements: 12 Credits

EDSC 3000 Educational Psychology 3
HLTH 4200 Health Education Teaching Methods 3
SOC 3430 Sociology of Education 3

Complete an additional 3 credits from any 3000 level or higher
course. See advisor for a list of recommended courses. 3

Graduation Requirements:
1. Completion of a minimum of 120 credits semester credits
2. Overall grade point average of 2.5 or above. All courses must have "C-" or higher.
3. Residency hours: minimum of 30 credit hours through course attendance at
UVU, with 10 hours earned during the last 45 hours
4. Completion of GE and specified departmental requirements
5. A minimum of 40 upper division credit hours
6. Successful completion of at least one Global/Intercultural course.

Dental Hygiene - Education Emphasis, B.S.
Careers
Dental Hygiene - Education Emphasis, B.S. Careers

Related Careers
• Health Specialties Teachers, Postsecondary
• Dental Hygienists

Dental Hygiene - Integrative Practice Emphasis, B.S.

Requirements
This is a Bachelor Completion program, meaning you must first have a two year
degree in dental hygiene to apply and be accepted. Please refer to our website at
www.uvu.edu/dental and/or call us at 801-863-7536 or 7592 for specific information
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teach, work for private companies, research work for the government, become a mid-
level provider or want to improve their critical thinking and problem solving skills. The
degree has emphases in four (4) areas consisting of 12 credit hours each. This degree
is aimed at the working professional, as the Dental Hygiene courses are offered on-line.

There is no a clinical component. There is also no special fee involved. The first four
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of Dental Hygiene advisor to help you customize a plan that works for you.

Total Program Credits: 120

Matriculation Requirements:
1. Completion of an AA, AS, or AAS degree in dental hygiene from an accredited
program with department permission

General Education Requirements: 38 Credits
ENGL 1010 Introduction to Writing 3
ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3

or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
MATH 1050 College Algebra 4

Complete one of the following:
HIST 1700 American Civilization (3.0)
HIST 2700 US History to 1877 (3.0)
HIST 2710 US History since 1877 (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)

Complete the following:
PHIL 2050 Ethics and Values (3.0)
or PHIL 205G Ethics and Values 3
HLTH 1100 Personal Health and Wellness (2.0)
or PES 1097 Fitness for Life 2

Distribution Courses:
BIOL 1010 General Biology 3
CHEM 1110 Elementary Chemistry for the Health Sciences 4
ZOOL 2320 Human Anatomy 3
ZOOL 2325 Human Anatomy Laboratory 1
Fine Arts 3
COMM 1050 Introduction to Speech Communication 3
SOC 1010 Introduction to Sociology 3
or SOC 1020 Modern Social Problems (3.0)

Discipline Core Requirements: 70 Credits

Complete the following:
DENT 1010 Dental Hygiene I 2
DENT 1015 Dental Hygiene I Preclinical lab 2
DENT 1020 Oral Anatomy and Physiology 4
DENT 1030 Dental Materials 2
DENT 1040 Dental Hygiene II 3
DENT 1045 Dental Hygiene II Clinical 3
DENT 1050 Clinical Dental Radiography 1
DENT 1055 Clinical Dental Radiography Lab 1
DENT 1060 General and Oral Pathology 3
DENT 2020 Dental Pharmacology 3
DENT 2060 Community Dental Hygiene 3
DENT 3010 Dental Hygiene III 2
DENT 3015 Dental Hygiene III Clinical 4
DENT 3030 Periodontology 3
DENT 3040 Dental Hygiene IV 2
DENT 3045 Dental Hygiene IV Clinical 4
DENT 3050 Dental Hygiene Seminar 1
DENT 3060 Advanced Dental Hygiene Public Health 3
DENT 3200 Teaching the Dental Hygiene Patient 2
DENT 4200 Teaching the Dental Hygiene Student 3
DENT 4300 Dental Hygiene Capstone 1
Dental Hygiene

**Graduation Requirements:**
1. Completion of a minimum of 120 credits semester credits
2. Overall grade point average of 2.5 or above. All courses must have "C-" or higher.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with 10 hours earned during the last 45 hours
4. Completion of GE and specified departmental requirements
5. A minimum of 40 upper division credit hours
6. Successful completion of at least one Global/Intercultural course.

**Dental Hygiene - Integrative Practice Emphasis, B.S. Careers**

Dental Hygiene - Integrative Practice Emphasis, B.S. Careers

**Related Careers**
- Health Specialties Teachers, Postsecondary
- Dental Hygienists

**Dental Hygiene - Public Health Emphasis, B.S.**

**Requirements**
This is a Bachelor Completion program, meaning you must first have a two year degree in dental hygiene to apply and be accepted. Please refer to our website at www.uvu.edu/dental and/or call us at 801-863-7536 or 7592 for specific information about the application process. The BS degree builds on the AAS degree in dental hygiene. The BS degree consists of 120 credits and builds on the credits already earned in the AAS program. This degree can be for those who want to: increase their knowledge in their field, move onto an advanced degree, become a hygiene faculty and teach, work for private companies, research work for the government, become a mid-level provider or want to improve their critical thinking and problem solving skills. The degree has emphases in four (4) areas consisting of 12 credit hours each. This degree is aimed at the working professional, as the Dental Hygiene courses are offered on-line. There is no a clinical component. There is also no special fee involved. The first four (4) semesters and AAS pre-requisites are listed. You must have completed your AAS degree before you can matriculate into the BS program. Because applicants will present with a variety of previous courses already taken, the following plan is only meant to be a guide. It is based on a student completing the UVU AAS Dental Hygiene Degree. Once you have applied, and are in the BS program, you must speak with the Department of Dental Hygiene advisor to help you customize a plan that works for you.

**Total Program Credits: 120**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>DENT 3045</td>
<td>Dental Hygiene IV Clinical</td>
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<td>DENT 3050</td>
<td>Dental Hygiene Seminar</td>
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<td>DENT 3060</td>
<td>Advanced Dental Hygiene Public Health</td>
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<td>DENT 3200</td>
<td>Teaching the Dental Hygiene Patient</td>
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<td>DENT 4200</td>
<td>Teaching the Dental Hygiene Student</td>
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<td>DENT 4300</td>
<td>Dental Hygiene Capstone</td>
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<td>DENT 481R</td>
<td>Internship in Dental Hygiene</td>
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<tr>
<td>MICR 2060</td>
<td>Microbiology for Health Professions</td>
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<td>MICR 2065</td>
<td>Microbiology for Health Professions Laboratory</td>
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</tr>
<tr>
<td>NUTR 1020</td>
<td>Foundations of Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PSY 1010</td>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td>ZOOL 2420</td>
<td>Human Physiology</td>
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<tr>
<td>ZOOL 2425</td>
<td>Human Physiology Laboratory</td>
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**Emphasis Requirements:**

12 Credits

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<th>Course Code</th>
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<tr>
<td>HLTH 3200</td>
<td>Principles of Community Health</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3260</td>
<td>Modifying Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3800</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 4300</td>
<td>Community Health Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Graduation Requirements:**

1. Completion of a minimum of 120 credits semester credits
2. Overall grade point average of 2.5 or above. All courses must have "C-" or higher.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with 10 hours earned during the last 45 hours
4. Completion of GE and specified departmental requirements
5. A minimum of 40 upper division credit hours
6. Successful completion of at least one Global/Intercultural course.

**Dental Hygiene - Public Health Emphasis, B.S.**

**Careers**

Dental Hygiene - Public Health Emphasis, B.S. Careers

**Related Careers**

- Health Specialties Teachers, Postsecondary
- Dental Hygienists
Developmental Mathematics

<table>
<thead>
<tr>
<th>Name:</th>
<th>Developmental Mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>LA 217</td>
</tr>
<tr>
<td>Telephone:</td>
<td>801-863-6570</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:SFord@uvu.edu">SFord@uvu.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td>uvu.edu/devmath/</td>
</tr>
<tr>
<td>Chair:</td>
<td>Keith White</td>
</tr>
</tbody>
</table>

Developmental Mathematics

- **Department Chair:** Keith White
  - **Office:** LA 217b
  - **Telephone:** 801-863-7217
  - **Email:** Keith.White@uvu.edu
- **Administrative Support:** Shelby Ford
  - **Office:** LA 217n
  - **Telephone:** 801-863-6570
  - **Email:** SFord@uvu.edu
- **Assistant Chair:** Laurel Howard
  - **Office:** LA 217c
  - **Telephone:** 801-863-6311
  - **Email:** howardla@uvu.edu
- **Evening Coordinator:** Ian Sorensen
  - **Office:** LA 217m
  - **Telephone:** 801-863-6728
  - **Email:** Ian.Sorensen@uvu.edu

Advisors:

- Sharon Larson
  - **Office:** LA 221a
  - **Telephone:** 801-863-6726
  - **Email:** larsonsh@uvu.edu
- Monica Ferreyra
  - **Office:** LA 220
  - **Telephone:** 801-863-5396
  - **Email:** MonicaF@uvu.edu

The courses offered by the Department of Developmental Mathematics are designed to provide a foundation in preparatory mathematics that is required for higher level mathematics courses and that support our students in many disciplines. The courses also provide for the development of critical thinking skills that are applicable to all aspects of academic life.

The Department of Developmental Mathematics offers MAT 1000 and MAT 1010, Intermediate Algebra as transferable, college credit classes, and as prerequisites for MATH 1030, MATH 1040, and MATH 1050. The Department of Developmental Mathematics also offers preparatory, non-transferable courses for students who need to strengthen mathematics skills before entering MAT 1010.

Course Descriptions

Mathematics Developmental
Digital Media

Name: Digital Media
Location: CS 526
Telephone: 801-863-8485
Email: schneigl@uvu.edu
Web Address: uvu.edu/dgm
Chair: Arlen Card

Mission Statement
Digital Media prepares students for careers in digital media. It equips students with foundation theories and procedures to develop sound multi-communication structures. It integrates: graphics, text animation, video and audio digital materials to entertain, educate, and communicate ideas through meaningful human interaction. Students in Digital Media (DGM) may earn either an AAS degree or a Bachelor's Degree.

Digital Media
Advisors:

• Joyce Porter
  • Telephone: 801-863-7125
  • Email: Joyce.porter@uvu.edu

• Marianna Henry
  • Telephone: 801-863-7125
  • Email: Marianna.Henry@uvu.edu

Bachelor Admittance Requirement
Digital Media (DGM) requires all students seeking a bachelor's degree to meet or exceed certain criteria to be eligible for the program. All sophomores and transfer students will need to apply to the program by completing a Portfolio Review. Eligibility for the bachelor program requires that all students receive a B- (2.75) or above in DGM courses. Additionally, this grade threshold must be maintained throughout the bachelor degree program to remain in good standing. Upper-division courses (3000 or 4000 level) cannot be taken unless accepted into the bachelor program.

Note: All freshmen should declare their “anticipated” degree when they complete their entrance application. Students accepted into the bachelor program must re-submit a new application at which time they must declare their “official” degree.

Laptop Requirement
Laptops will be required for many of the upper-division courses. Each degree will have its own laptop specifications. Please see a Digital Media advisor for details.

Course Descriptions
Computing ............................................................................................................. 570
Digital Media ....................................................................................................... 587

Degrees & Programs
Digital Communication Technology, A.A.S.
Requirements
Digital Media (DGM) fuses both fundamental theory and practical application in the production of electronically-generated content to be delivered via internet, radio and television, digital cinema, computer games, animation and cinematic visual effects, as well as for emerging technologies such as mobile computing (hand-held computing devices). The curriculum integrates these digital mediums to entertain, educate, and communicate ideas through meaningful human interaction. DGM provides motivated and dedicated students the opportunity to work closely with professionally active faculty members committed to the future of the digital disciplines. Students in Digital Media may earn either a Certificate of Proficiency in Digital Cinema, Associate in Applied Science Degree, or a Bachelor of Science Degree. Areas of emphasis include: Digital Communication Technology, Audio Production, Digital Motion Picture Production, Gaming and Animation, Internet Technologies.

Total Program Credits: 64

General Education Requirements: 17 Credits

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>3</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
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<table>
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<th>MATHEMATICS</th>
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<tr>
<td>MAT 1010 Intermediate Algebra</td>
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<th>HUMANITIES/FINE ARTS/FOREIGN LANGUAGE</th>
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<tr>
<td>PHIL 2050 Ethics and Values (3.0)</td>
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<tr>
<td>or Any approved Humanities, Fine Arts, or Foreign Language Distribution Course</td>
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<thead>
<tr>
<th>SOCIAL AND BEHAVIORAL SCIENCE</th>
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<tr>
<td>Any approved Behavioral Science, Social or Political Science Distribution Course</td>
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<table>
<thead>
<tr>
<th>BIOLOGY OR PHYSICAL SCIENCE</th>
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DEPARTMENT CHAIR
CARD, Arlen Associate Professor

DEPARTMENT CO-CHAIR
HARPER, Michael F. Associate Professor

FACULTY
ANDERSEN, Duane Assistant Professor
ANDERSON, Thor Associate Professor
BROWN, Kim Associate Professor
CARD, Arlen Associate Professor
CHENEY, Paul Associate Professor
CHRISTENSEN, Trudy Associate Professor
CLAYTON, Marty J. Assistant Professor
ESMAY, Rodayne Professor
HARPER, Michael F. Associate Professor
LISONBEE, Dennis Associate Professor
LIU, Li Assistant Professor
ROMRELL, Anthony Associate Professor
TRIM, Robert L. Associate Professor
WISLAND, Michael G. Associate Professor
Digital Media

Complete the following:

- DGM 1110 Digital Media Essentials I 4
- DGM 2110 Digital Motion Picture Essentials 3
- DGM 2120 Web Essentials 3
- DGM 2130 Digital Audio Essentials 3
- DGM 2210 3D Modeling and Animation Essentials 4
- DGM 2240 Interaction Design 3
- DGM 2250 Principles of Digital Design 3
- or ART 1120 2D Design (3.0)

Elective Requirements: Complete 24 credits from approved DGM electives (see advisor) 24

Graduation Requirements:

1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Digital Communication Technology, A.A.S.

Careers

Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals.

Related Careers

- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

Digital Cinema, Certificate of Proficiency

Careers

Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals.

Related Careers

- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

Digital Media, Minor

Requirements

Digital Media (DGM) fuses both fundamental theory and practical application in the production of electronically-generated content to be delivered via internet, radio and television, digital cinema, computer games, animation and cinematic visual effects, as well as for emerging technologies such as mobile computing (hand-held computing devices). The curriculum integrates these digital mediums to entertain, educate, and communicate ideas through meaningful human interaction. DGM provides motivated and dedicated students the opportunity to work closely with professionally active faculty members committed to the future of the digital disciplines. Students in Digital Media may earn either a Certificate of Proficiency in Digital Cinema, Associate in Applied Science Degree, or a Bachelor of Science Degree. Areas of emphasis include: Digital Communication Technology, Audio Production, Digital Motion Picture Production, Gaming and Animation, Internet Technologies.

Total Program Credits: 15

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
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<tbody>
<tr>
<td>1. Admitted to a bachelor degree program at UVU.</td>
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<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>7 Credits</th>
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<tbody>
<tr>
<td>DGM 1110 Digital Media Essentials I</td>
<td>4</td>
</tr>
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</table>

Select one course from the following: 3

- DGM 2110 Digital Motion Picture Essentials (3.0)
- DGM 2120 Web Essentials (3.0)
- DGM 2130 Digital Audio Essentials (3.0)
- DGM 2210 3D Modeling and Animation Essentials (4.0)

Elective Requirements: 15 Credits

Select 15 credits from approved DGM electives. See advisor for details. 15
Graduation Requirements:
1. Overall grade point average of 2.5 GPA in all discipline core and elective courses with no grade lower than a C-.
2. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Digital Media, Minor

Careers:
Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals.

Related Careers
- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

Animation and Game Development, B.S.

Requirements

Total Program Credits: 120

General Education Requirements: 35 Credits

<table>
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<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
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Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0)</td>
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<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
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Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
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</tr>
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<td>HIST 2710</td>
<td>US History since 1877</td>
<td>3</td>
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<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
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<td>HIST 1740</td>
<td>US Economic History</td>
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<td>POLS 1000</td>
<td>American Heritage</td>
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<td>POLS 1100</td>
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Complete the following:

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
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<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
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<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
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Distribution Courses

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<td>Biology</td>
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<td>Physical Science</td>
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<tr>
<td>Additional Biology or Physical Science</td>
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<tr>
<td>Humanities Distribution-- ENGL 2200 Introduction to Literature or ENGL 2130 Science Fiction recommended for Cinema Production</td>
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Discipline Core Requirements: 78 Credits

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<tr>
<th>Course</th>
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<tr>
<td>DGM 1110</td>
<td>Digital Media Essentials I</td>
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<td>DGM 1600</td>
<td>Introduction to Scripting</td>
<td>3</td>
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<tr>
<td>DGM 1620</td>
<td>Survey of Animation</td>
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<tr>
<td>DGM 2550</td>
<td>Principles of Digital Design</td>
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<tr>
<td>or ART 1110</td>
<td>Drawing I (3.0)</td>
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<tr>
<td>DGM 2210</td>
<td>3D Modeling and Animation Essentials</td>
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<td>DGM 2211</td>
<td>Rigging and Animation Essentials</td>
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<td>DGM 2221</td>
<td>Game Essentials</td>
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<td>DGM 2610</td>
<td>Game Design I</td>
<td>3</td>
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<td>DGM 2620</td>
<td>Principles of Animation I</td>
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<td>DGM 2640</td>
<td>Character Development</td>
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<td>DGM 2670</td>
<td>Scripting for Animation and Games</td>
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<td>DGM 3110</td>
<td>Corporate Issues in Digital Media</td>
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<td>DGM 312G</td>
<td>Digital Media for Intercultural Communication</td>
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<td>COMP 301R</td>
<td>Digital Lecture Series</td>
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<td>DGM 3650</td>
<td>Animation and Game Project I</td>
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<td>DGM 3641</td>
<td>Game Level Design</td>
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<td>DGM 3620</td>
<td>Principles of Animation II</td>
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<td>DGM 3670</td>
<td>Scripting for Animation and Games II</td>
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<tr>
<td>DGM 3680</td>
<td>Animation and Game Project II</td>
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<td>DGM 4000</td>
<td>Writing for Digital Media</td>
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<td>DGM 4310</td>
<td>Senior Projects I</td>
<td>3</td>
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<td>DGM 4410</td>
<td>Senior Projects II</td>
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<tr>
<td>DGM 4630</td>
<td>Visual Effects and Compositing I</td>
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<tr>
<td>DGM 4640</td>
<td>Visual Effects and Compositing II</td>
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Elective Requirements: 7 Credits

Take 7 credits from the following:

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ART 1210</td>
<td>Drawing for Illustration (3.0)</td>
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<td>ART 2250</td>
<td>Drawing for Animation (3.0)</td>
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<td>CS 1410</td>
<td>Object-Oriented Programming (3.0)</td>
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<tr>
<td>DGM 2600</td>
<td>The Animated Image</td>
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<td>DGM 3660</td>
<td>Advanced Rigging and Character Effects (3.0)</td>
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<tr>
<td>DGM 4621</td>
<td>Performance Animation (3.0)</td>
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<tr>
<td>DGM 3610</td>
<td>Game Design II</td>
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<tr>
<td>THEA 1033</td>
<td>Acting I (3.0)</td>
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Or advisor approved electives

Graduation Requirements:
1. Completion of a minimum of 120 semester credits.
2. A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation. To qualify for the portfolio review, DGM courses must be completed with a grade of B- or higher.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
Total Program Credits: 120

**General Education Requirements:**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
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<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
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<tr>
<td>MAT 1030</td>
<td>Quantitative Reasoning</td>
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<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td>3</td>
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<td>MATH 1050</td>
<td>College Algebra</td>
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<td>US History to 1877</td>
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<tr>
<td>or HIST 2710</td>
<td>US History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 1700</td>
<td>American Civilization</td>
<td>3</td>
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<tr>
<td>or HIST 1740</td>
<td>US Economic History</td>
<td>3</td>
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<tr>
<td>or POLS 1000</td>
<td>American Heritage</td>
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<td>or POLS 1100</td>
<td>American National Government</td>
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<td>PHIL 2050</td>
<td>Ethics and Values</td>
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<tr>
<td>HLTH 1100</td>
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<td>2</td>
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<tr>
<td>or PES 1097</td>
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**Discipline Core Requirements:**

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<td>Descriptive Acoustics</td>
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<td>DGM 2140</td>
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<td>DGM 2440</td>
<td>Sound for Film and Television</td>
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<tr>
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<td>Radio Production</td>
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<td>DGM 2481</td>
<td>Introduction to Digital Audio Restoration</td>
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<td>DGM 2410</td>
<td>Core Recording Principles</td>
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<td>DGM 2430</td>
<td>Core Mixing Principles</td>
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<td>DGM 3110</td>
<td>Corporate Issues in Digital Media</td>
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<td>DGM 312G</td>
<td>Digital Media for Intercultural Communication</td>
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<tr>
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<tr>
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<td>DGM 4430</td>
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<tr>
<td>DGM 3100</td>
<td>Core Mixing Principles</td>
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<td>DGM 3000</td>
<td>Core Recording Principles</td>
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<td>DGM 3200</td>
<td>Core Mixing Principles</td>
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**Elective Requirements:**

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<tr>
<th>Course Code</th>
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<tr>
<td>MUSC 1010</td>
<td>Introduction to Music</td>
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<td>MUSC 1110</td>
<td>Music Theory I</td>
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<td>MUSC 1120</td>
<td>Music Theory II</td>
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<td>DGM 2120</td>
<td>Web Essentials</td>
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<td>DGM 2210</td>
<td>3D Modeling and Animation Essentials (4.0)</td>
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<td>DGM 2240</td>
<td>Interaction Design</td>
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<td>DGM 240R</td>
<td>Special Topics in Digital Audio (1.0)</td>
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<td>DGM 340R</td>
<td>Advanced Topics in Digital Audio (1.0)</td>
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<td>DGM 3430</td>
<td>Recording Studio Design Principles and Practices</td>
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<td>DGM 3481</td>
<td>Advanced Audio Restoration and Forensics (3.0)</td>
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<tr>
<td>DGM 350R</td>
<td>Advanced Topics in Digital Motion Picture Production</td>
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</table>

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits.
2. A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation. To qualify for the portfolio review, DGM courses must be completed with a grade of B- or higher.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements, which includes a portfolio review and acceptance into the degree.
5. Successful completion of at least one Global/Intercultural course.
Digital Audio, B.S.

Related Careers
- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

Digital Cinema, B.S.

Requirements

Total Program Credits: 120

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
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<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
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<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
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Complete one of the following:
- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following:
- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:
- PHIL 2050 Ethics and Values (3)
- HLTH 1100 Personal Health and Wellness (2)
- or PES 1097 Fitness for Life (2.0)

Discipline Core Requirements:

65 Credits
- DGM 1061 Motion Picture Editing (3)
- DGM 1110 Digital Media Essentials I (4)
- DGM 1510 Film Production Analysis (3)
- DGM 1520 Corporate and Documentary Production (3)
- DGM 2110 Digital Motion Picture Essentials (3)
- DGM 2130 Digital Audio Essentials (3)
- DGM 2320 Digital Photography and Compositing I (3)
- DGM 2440 Sound for Film and Television (3)
- DGM 2540 Cinematography I (3)
- DGM 2660 Digital Storyboarding (3)
- DGM 3110 Corporate Issues in Digital Media (3)
- or DGM 3550 Producing I (3.0)
- DGM 312G Digital Media for Intercultural Communication (3)
- COMP 301R Digital Lecture Series (1.0) (1)
- or DGM 3220 Digital Media Project Management (3)
- DGM 3530 Digital Film Production Management (3.0)
- DGM 351R Digital Broadcasting (3)
- DGM 3540 Cinematography II (3)
- DGM 3560 Post Production (3)
- DGM 3570 Digital Story Telling Workshop (3.0) (3)
- DGM 3580 Digital Cinema Production Workshop (3)
- DGM 4310 Senior Projects I (3)
- DGM 4410 Senior Projects II (3)
- DGM 4560 Color Grading (3)

Elective Requirements:

20 Credits

Take 20 credits from the following including 6 upper division credits.

- DGM 2340 Digital Output for Film (3.0)
- DGM 2210 3D Modeling and Animation Essentials (4.0)
- THEA 2741 Scriptwriting I (3.0)
- ACC 2010 Financial Accounting (3.0)
- ACC 2020 Managerial Accounting (3.0)
- ACC 3000 Financial Managerial and Cost Accounting Concepts (3.0)
- MGMT 3170 Entrepreneurship (3.0)
- MGMT 3180 Small Business Development (3.0)
- MGMT 3190 Entrepreneurship Financing Ventures (3.0)
Digital Media

**THEA 3741**  
Script Writing II (3.0)

**DGM 3320**  
Digital Photography and Compositing II (3.0)

**THEA 3113**  
Acting for Film (3.0)

**THEA 3614**  
Directing Actors for the Screen (3.0)

**THEA 3563**  
Art Direction for Film (3.0)

**THEA 3612**  
Directing Actors for the Stage II (3.0)

**THEA 3611**  
Directing Actors for the Stage I (3.0)

**THEA 374R**  
New Script Workshop (3.0)

**DGM 481R**  
Internship (1.0)

**DGM 454R**  
Cinematography Workshop (3.0)

**MGMT 4300**  
Entrepreneurship Business Planning (3.0)

**THEA 4741**  
Scriptwriting III (3.0)

**DGM 481R**  
Internship (1.0)

**DGM 4630**  
Visual Effects and Compositing I (3.0)

**DGM 4630**  
Visual Effects and Compositing II (3.0)

**THEA 3113**  
Acting for Film (3.0)

**THEA 3563**  
Art Direction for Film (3.0)

**THEA 3612**  
Directing Actors for the Stage II (3.0)

**THEA 3611**  
Directing Actors for the Stage I (3.0)

**THEA 374R**  
New Script Workshop (3.0)

**DGM 481R**  
Internship (1.0)

**DGM 4630**  
Visual Effects and Compositing II (3.0)

**THEA 3113**  
Acting for Film (3.0)

**THEA 3563**  
Art Direction for Film (3.0)

**THEA 3612**  
Directing Actors for the Stage II (3.0)

**THEA 3611**  
Directing Actors for the Stage I (3.0)

**THEA 374R**  
New Script Workshop (3.0)

**DGM 481R**  
Internship (1.0)

**DGM 4630**  
Visual Effects and Compositing II (3.0)

**THEA 3113**  
Acting for Film (3.0)

**THEA 3563**  
Art Direction for Film (3.0)

**THEA 3612**  
Directing Actors for the Stage II (3.0)

**THEA 3611**  
Directing Actors for the Stage I (3.0)

**THEA 374R**  
New Script Workshop (3.0)

**DGM 481R**  
Internship (1.0)

**DGM 4630**  
Visual Effects and Compositing II (3.0)

**THEA 3113**  
Acting for Film (3.0)

**THEA 3563**  
Art Direction for Film (3.0)

**THEA 3612**  
Directing Actors for the Stage II (3.0)

**THEA 3611**  
Directing Actors for the Stage I (3.0)

**THEA 374R**  
New Script Workshop (3.0)

**DGM 481R**  
Internship (1.0)

**DGM 4630**  
Visual Effects and Compositing II (3.0)

Graduation Requirements:
1. Completion of a minimum of 120 semester credits.
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5. Successful completion of at least one Global/Intercultural course.

Digital Cinema, B.S.

**Careers**

**Related Careers**
- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

**Web Design and Development - Interaction and Design Emphasis, B.S.**

**Requirements**

Total Program Credits: 120

**General Education Requirements:**  35 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>ENGL 1010</td>
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<td>Intermediate Writing–Humanities/Social Sciences</td>
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Complete one of the following:

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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (recommended for Humanities or Arts majors)</td>
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<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (recommended for Social Science majors)</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (recommended for Business, Education, Science, and Health Professions majors)</td>
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Complete one of the following: 3

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<tr>
<td>and HIST 2710</td>
<td>US History since 1877</td>
<td>(3.0)</td>
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**Distribution Courses**

- Biology (3)
- Physical Science (3)
- Additional Biology or Physical Science (3)
- Humanities Distribution (3)
- Fine Arts Distribution (3)
- Social/Behavioral Science (3)

**Discipline Core Requirements:**  44 Credits

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<td>ART 1420</td>
<td>Introduction to Graphic Design</td>
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<td>Web Essentials</td>
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<td>DGM 2240</td>
<td>Interaction Design</td>
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<td>DGM 2250</td>
<td>Principles of Digital Design</td>
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<td>Digital Media for Intercultural Communication</td>
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<td>Corporate Issues in Digital Media</td>
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<td>Digital Media Project Management</td>
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<td>Digital Media Design II</td>
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<td>Media Traffic and Analytics</td>
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<td>Writing for Digital Media</td>
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**Emphasis Requirements:**  30 Credits

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<td>DGM 2270</td>
<td>Digital Publishing I</td>
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<td>DGM 3261</td>
<td>Authoring for Virtual Reality Experiences</td>
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<td>Interaction Design Colloquium</td>
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<td>Authoring for Adaptive Media I</td>
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<td>Designing Technology-based Training</td>
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Emphasis Elective Requirements: 11 Credits

Take 11 credits from the following:

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<td>(3.0)</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>DGM 2280</td>
<td>Digital Effects I</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 2760</td>
<td>Web Languages I</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 320R</td>
<td>Advanced Topics in Digital Media Design</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 3320</td>
<td>Digital Photography and Compositing II</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 4620</td>
<td>Producing Technology-based Training</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 4280</td>
<td>Authoring for Adaptive Media II</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation. To qualify for the portfolio review, DGM courses must be completed with a grade of B- or higher.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements, which includes a portfolio review and acceptance into the degree.
5. Successful completion of at least one Global/Intercultural course.

### Web Design and Development - Interaction and Design Emphasis, B.S.

#### Careers

- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

#### Web Design and Development - Web and App Development Emphasis, B.S.

#### Requirements

**Total Program Credits: 120**

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
</tr>
</tbody>
</table>

Complete one of the following:

- MATH 1030                      | Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0) | 3 |
- MATH 1040                      | Introduction to Statistics (recommended for Social Science majors) (3.0) | |
- MATH 1050                      | College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0) | |

Complete one of the following:

- HIST 2700                      | US History to 1877 (3.0) | 3 |
and HIST 2710                    | US History since 1877 (3.0) | |
- HIST 1700                      | American Civilization (3.0) | |
- HIST 1740                      | US Economic History (3.0) | |
- POLS 1000                      | American Heritage (3.0) | |
- POLS 1100                      | American National Government (3.0) | |

Complete the following:

- PHIL 2050                      | Ethics and Values | 3 |
- HLTH 1100                      | Personal Health and Wellness | 2 |
  or PES 1097                     | Fitness for Life (2.0) | |

### Distribution Courses

- Biology                       | 3 |
- Physical Science              | 3 |
- Additional Biology or Physical Science | 3 |
- Humanities Distribution       | 3 |
- Fine Arts Distribution        | 3 |
- Social/Behavioral Science     | 3 |

### Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGM 1110</td>
<td>Digital Media Essentials I</td>
<td>4.0</td>
</tr>
<tr>
<td>ART 1420</td>
<td>Introduction to Graphic Design</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 2120</td>
<td>Web Essentials</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 2240</td>
<td>Interaction Design</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 2250</td>
<td>Principles of Digital Design</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 2271</td>
<td>Digital Media Design I</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP 301R</td>
<td>Digital Lecture Series</td>
<td>1.0</td>
</tr>
<tr>
<td>DGM 312G</td>
<td>Digital Media for Intercultural Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 3110</td>
<td>Corporate Issues in Digital Media</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 3220</td>
<td>Digital Media Project Management</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 3271</td>
<td>Digital Media Design II</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 3750</td>
<td>Media Traffic and Analytics</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 4000</td>
<td>Writing for Digital Media</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 4310</td>
<td>Senior Projects I</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 4410</td>
<td>Senior Projects II</td>
<td>3.0</td>
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</table>

### Emphasis Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGM 1600</td>
<td>Introduction to Scripting</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 2740</td>
<td>Principles of Web Languages</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 2760</td>
<td>Web Languages I</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 2780</td>
<td>Web Tools and Frameworks I</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 3740</td>
<td>Web Content Management</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 3760</td>
<td>Web Languages II</td>
<td>3.0</td>
</tr>
<tr>
<td>or INFO 3422</td>
<td>PHP Web Application Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>DGM 3780</td>
<td>Web Tools and Frameworks II</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 3790</td>
<td>Rich Internet Application Development I</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 4790</td>
<td>Rich Internet Application Development II</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Emphasis Elective Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DGM 2260</td>
<td>Immersive Authoring I</td>
<td></td>
</tr>
<tr>
<td>DGM 2341</td>
<td>Digital Output for Mobile Media</td>
<td></td>
</tr>
<tr>
<td>DGM 2270</td>
<td>Digital Publishing I</td>
<td></td>
</tr>
<tr>
<td>CS 1400</td>
<td>Fundamentals of Programming</td>
<td></td>
</tr>
<tr>
<td>or INFO 1200</td>
<td>Computer Programming I for IS/IT (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 1410</td>
<td>Object-Oriented Programming</td>
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</tr>
<tr>
<td>or INFO 2200</td>
<td>Computer Programming II for IS/IT (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 2420</td>
<td>Introduction to Algorithms and Data Structures (3.0)</td>
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</tr>
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</table>
Digital Media

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGM 3261</td>
<td>Authoring for Virtual Reality Experiences (3.0)</td>
</tr>
<tr>
<td>DGM 3280</td>
<td>Authoring for Adaptive Media I (3.0)</td>
</tr>
<tr>
<td>DGM 4280</td>
<td>Authoring for Adaptive Media II (3.0)</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation. To qualify for the portfolio review, DGM courses must be completed with a grade of B- or higher.
3. Residency hours – minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements, which includes a portfolio review and acceptance into the degree.
5. Successful completion of at least one Global/Intercultural course.

Web Design and Development - Web and App Development Emphasis, B.S.

Careers

Related Careers

- Web Developers
- Multimedia Artists and Animators
- Graphic Designers
Earth Science

Name: Earth Science
Location: PS 207
Telephone: 801-863-6295
Email: michael.bunds@uvu.edu or hancocke@uvu.edu
Web Address: www.uvu.edu/earthscience/
Chair: Michael Bunds

Mission Statement
The Department of Earth Science's mission is to provide students with a rewarding and dynamic educational experience. We pride ourselves on being able to offer personal attention to the needs of students with diverse backgrounds and educational goals, and to providing students with the opportunity to learn outside of the classroom in research, service-learning and internship projects. Our three degree programs (B.S. in Geology, B.S. in Environmental Science and Management, and B.S. in Earth Science Education) provide a wide range of skills and knowledge that are applicable to today's earth science job markets, as well as a broad-based science education that’s ideal for students planning to continue to graduate programs in law, education, business, or health fields. Our Department graduates professionals who are skilled and creative and who are well prepared to contribute toward solving earth and environmental science challenges faced here in Utah and worldwide.

Depending on the specific degree and elective courses chosen, a graduate will gain particular expertise in one or more of the following areas:

- Economic Geology
- Environmental Science
- Environmental Management
- Geochemistry
- Geographic Information Systems
- Geologic Hazards
- Geomorphology
- Hydrology
- Paleontology
- Petrology
- Tectonics

Earth Science

Administrative Assistant: Kellie Hancock
- Office: PS REC
- Telephone: 801-863-6295
- Email: hancocke@uvu.edu

Earth Science Advisor: Tom Liljegren
- Office: PS 201
- Telephone: 801-863-8616
- Email: TLiljegren@uvu.edu

Course Descriptions
Environmental Management................................................................. 623
Geology...................................................................................................... 645
Geography................................................................................................. 643
Meteorology............................................................................................... 680

Degrees & Programs
Physical Science, A.S.
Requirements
Total Program Credits: 63

General Education Requirements: 38 Credits

- ENGL 1010 Introduction to Writing 3
- ENGL 2010 Intermediate Writing—Humanities/Social Sciences 3
  or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
- MATH 1050 College Algebra 4

Complete one of the following: 3

- HIST 2700 US History to 1877 (3.0)
  or HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3
- HLTH 1100 Personal Health and Wellness 2
  or PES 1097 Fitness for Life (2.0)

Distribution Courses

- Biology 3
- PHYS 2210 Physics for Scientists and Engineers I 4
- PHYS 2220 Physics for Scientists and Engineers II 4
- Humanities Distribution 3
### Earth Science

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>17 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1210 Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1215 Principles of Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MATH 1210 Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 1220 Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 2215 Physics for Scientists and Engineers I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 2225 Physics for Scientists and Engineers II Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Elective Requirements: 8 Credits

Complete 8 credits from the following:

- CHEM 1220 Principles of Chemistry II (4.0)
- CHEM 2310 Organic Chemistry I (4.0)
- CHEM 2315 Organic Chemistry I Laboratory (1.0)
- CHEM 2325 Organic Chemistry II Laboratory (1.0)
- ENGR 2450 Computational Methods for Engineering Analysis (3.0)
- GEO 1010 Introduction to Geology (3.0)
- GEO 1220 Historical Geology (3.0)
- GEO 1080 Introduction to Oceanography (3.0)
- MATH 2210 Calculus III (3.0)
- MATH 2040 Principles of Statistics (4.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)
- METO 1010 Introduction to Meteorology (3.0)

#### Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

### Physical Science, A.S.

#### Careers

Physical Science, A.S. Careers

- Natural Sciences Managers
- Secondary School Teachers, Except Special and Career/Technical Education

### Water and Wastewater Operations, Certificate of Completion

#### Requirements

- **Total Program Credits: 31**

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>22 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVT 1200 Environmental Worker Safety</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 1210 Introduction to Water Reclamation</td>
<td>(3.0)</td>
</tr>
<tr>
<td>or ENVT 1360 Introduction to Water Treatment</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 1300 Environmental Lab and Sampling</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Must take three of the following courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVT 1270 Environmental Microbiology (3.0)</td>
</tr>
<tr>
<td>ENVT 1510 Hazardous Materials Emergency Response (3.0)</td>
</tr>
<tr>
<td>ENVT 3320 Hydraulics of Water (3.0)</td>
</tr>
<tr>
<td>ENVT 3330 Water Resources Management (3.0)</td>
</tr>
<tr>
<td>ENVT 3630 Introduction to Geographic Information Systems (4.0)</td>
</tr>
<tr>
<td>ENVT 3790 Hydrology I (4.0)</td>
</tr>
</tbody>
</table>

#### Graduation Requirements:

1. Completion of a minimum of 31 credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours – Minimum of 10 credits required through course attendance at UVU.

### Earth Science, Minor

#### Requirements

- **Total Program Credits: 23**

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Admitted to a bachelor degree program at UVU.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>23 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 1010 Introduction to Geology</td>
<td>3</td>
</tr>
<tr>
<td>and GEO 1015 Introduction to Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>and GEO 3080 Earth Materials</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete two from:

- GEO 1020 Prehistoric Life (3.0)
- GEO 1080 Introduction to Oceanography (3.0)
- GEO 1085 Introduction to Oceanography Laboratory (1.0)
- METO 1010 Introduction to Meteorology (3.0)
- METO 1020 Introduction to Meteorology Laboratory (1.0)

Complete two from:

- GEO 3200 Geologic Hazards (4.0)
- GEO 3700 Structure and Tectonics (4.0)
- GEO 4500 Sedimentary Geology (4.0)
- GEO 4510 Paleontology (4.0)
- ENVT 3790 Hydrology I (4.0)
- GEGG 3600 Introduction to Geographic Information Systems (4.0)
Earth Science, Minor

Careers

Earth Science, Minor Careers

Related Careers

- Natural Sciences Managers
- Geoscientists, Except Hydrologists and Geographers
- Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary

Geography, Minor

Requirements

Total Program Credits: 21

Matriculation Requirements:

1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 21 Credits

Required Courses: Complete the following:

- GEOG 1000 Introduction to Physical Geography (3)
- GEOG 1005 Introduction to Physical Geography Lab (1)
- GEOG 3100 Cartography (3)
- GEOG 3600 Introduction to Geographic Information Systems (4)

Elective courses: complete at least 10 credits from the following list, at least six of which must be 3000-level or higher:

- ENVT 3800 Energy Use on Earth (3.0)
- GEOG 1300 Survey of World Geography (3.0)
- GEOG 1400 Introduction to Human Geography (3.0)
- GEOG 1600 Geography of Utah (3.0)
- GEOG 2100 Geography of the United States (3.0)
- GEOG 2500 Geography of Latin America and the Caribbean (3.0)
- GEOG 3400 Environmental Remote Sensing (3.0)
- GEOG 3500 Geomorphology (4.0)
- or GEO 3200 Geologic Hazards (4.0)
- GEOG 3650 Advanced Geographic Information Systems (4.0)
- GEOG 3700 Wetland Studies (3.0)
- GEOG 4100 Geospatial Field Methods (3.0)

At most one of the following courses may be used towards elective requirements:

- ARCH 1100 Introduction to Archaeology (3.0)
- ANTH 2030 Archeological Method and Theory (3.0)
- ANTH 3850 Ethnographic Methods (3.0)
- BIOL 3700 General Ecology (3.0)
- BIOL 3800 Conservation Biology (3.0)
- BOT 3700 Plant Ecology (3.0)
- ENGL 373R Literature of Cultures and Places (3.0)
- ENST 3000 Introduction to Environmental Studies (3.0)
- ENVT 3330 Water Resources Management (3.0)
- ENVT 3850 Environmental Policy (3.0)

Graduation Requirements:

1. Grade point average of 2.0 or above required in all courses used to satisfy requirements of the minor.
2. Grade of C- or higher in all courses used to satisfy requirements of the minor.

Geography, Minor Careers

Related Careers

- Managers, All Other
- Geographers
- Geography Teachers, Postsecondary

Earth Science Education, B.S.

Requirements

Earth Science is the study of the Earth, including its water and atmosphere, and their relationship to humans and other living things. Earth Science applies chemistry, physics, mathematics and biology to scientific problems of the Earth. The Earth Science Education program prepares students to receive a Utah State teaching credential with an endorsement in Earth Science. Through careful choice of courses, students may also earn endorsements in the other physical sciences.

Total Program Credits: 122

Matriculation Requirements:

1. Complete the following courses: GEO 1010, GEO 1015, MATH 1050, MATH 1060, BIOL 1610 with a grade of "C-" or higher in each.
2. Complete a minimum of 30 semester hours of college credit.
3. Apply to the department of Earth Science for admission.

Secondary Education Requirements:

1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass LiveScan Criminal Background Check.

General Education Requirements: 27 Credits

- ENGL 1010 Introduction to Writing (3)
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3)
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- MATH 1050 College Algebra (4)

Complete one of the following:

- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)
## Earth Science

### Education Courses

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSC 4440</td>
<td>Multicultural Instruction ESL</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4550</td>
<td>Secondary Curriculum Instruction and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4450</td>
<td>Multicultural Instruction ESL</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4850</td>
<td>Student Teaching--Secondary</td>
<td>10</td>
</tr>
<tr>
<td>EDSP 3400</td>
<td>Exceptional Students</td>
<td>2</td>
</tr>
</tbody>
</table>

**Distribution Courses**

- **Biology**
- **Physical Science**
- **Additional Biology or Physical Science**

- **Humanities Distribution** | 3 credits |
- **Fine Arts Distribution**  | 3 credits |
- **Social/Behavioral Science** | 3 credits |

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 1040</td>
<td>Elementary Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1010</td>
<td>General Biology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3700</td>
<td>Wetland Studies</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 2500</td>
<td>Environmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1210</td>
<td>Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1215</td>
<td>Principles of Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1220</td>
<td>Principles of Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1225</td>
<td>Principles of Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEO 1010</td>
<td>Introduction to Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 1015</td>
<td>Introduction to Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEO 1220</td>
<td>Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 1225</td>
<td>Historical Geology Laboratory</td>
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</tr>
<tr>
<td>GEO 3080</td>
<td>Earth Materials</td>
<td>3</td>
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<tr>
<td>GEO 3700</td>
<td>Structure and Tectonics</td>
<td>4</td>
</tr>
<tr>
<td>GEO 4200</td>
<td>Teaching Methods in Science</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4500</td>
<td>Sedimentary Geology</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1060</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>METO 1010</td>
<td>Introduction to Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>METO 3100</td>
<td>Climate and the Earth System</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2010</td>
<td>College Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2015</td>
<td>College Physics I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 2020</td>
<td>College Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2025</td>
<td>College Physics II Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

**Education Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSC 3000</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 3050</td>
<td>Foundations of American Education</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 3250</td>
<td>Instructional Media</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4200</td>
<td>Classroom Management I</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4250</td>
<td>Classroom Management II</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4440</td>
<td>Content Area Literacies</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4450</td>
<td>Multicultural Instruction ESL</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4550</td>
<td>Secondary Curriculum Instruction and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4850</td>
<td>Student Teaching--Secondary</td>
<td>10</td>
</tr>
<tr>
<td>EDSP 3400</td>
<td>Exceptional Students</td>
<td>2</td>
</tr>
</tbody>
</table>

### Elective Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 1080</td>
<td>Introduction to Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>GEO 1085</td>
<td>Introduction to Oceanography Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEO 202R</td>
<td>Science Excursion</td>
<td>1</td>
</tr>
<tr>
<td>GEO 204R</td>
<td>Natural History Excursion</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3000</td>
<td>Geochemistry</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3100</td>
<td>Isotope Geochemistry</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3200</td>
<td>Geologic Hazards</td>
<td>4</td>
</tr>
<tr>
<td>GEO 3500</td>
<td>Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>GEO 4510</td>
<td>Paleontology</td>
<td>4</td>
</tr>
<tr>
<td>METO 1020</td>
<td>Introduction to Meteorology Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

**Or other advisor-approved electives**

### Graduation Requirements:

1. Completion of a minimum of 122 semester credits.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Grade of C- or higher in all GEO, BIOL, and METO courses.
6. Successful completion of at least one Global/Intercultural course.

Note: *This requirement is fulfilled with the core requirements.

### Earth Science Education, B.S.

#### Careers

The three degree programs offered by the Department of Earth Science (B.S. in Geology, B.S. in Environmental Science and Management, and B.S. in Earth Science Education) provide a wide range of skills and knowledge that are applicable to today’s earth science job markets, as well as a broad science education that’s ideal for students planning to continue to graduate programs in law, education, business, or health fields. Our Department graduates professionals who are skilled and creative and who are well prepared to contribute toward solving earth and environmental science challenges faced here in Utah and worldwide.

The Earth Science Education degree prepares K-12 science teachers. The degree emphasizes earth science curriculum, but many students gear their program to qualify them to teach other physical sciences and/or geography. Job prospects for graduates are outstanding, and many UVU-educated earth science teachers are making a difference in young people’s lives through their work in Utah’s K-12 school system.

### Related Careers

- Agricultural Sciences Teachers, Postsecondary
- Biological Science Teachers, Postsecondary
- Forestry and Conservation Science Teachers, Postsecondary
- Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
- Chemistry Teachers, Postsecondary
- Environmental Science Teachers, Postsecondary
- Physics Teachers, Postsecondary
- Education Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education
Environmental Science and Management, B.S.

Requirements

Environmental Science is the study of the Earth’s surface, including its water and atmosphere, with a particular focus on their relationship to humans and other living things. Environmental Science applies chemistry, physics, mathematics and biology to answer questions about the Earth and its interrelationships with living things. Environmental Management focuses on the maintenance of environmental resources, for example water resources. Environmental scientists may conduct studies in the field, in the laboratory using advanced analytical equipment, and in the office using specialized computer software. The program is preparation for a variety of career paths, including water monitoring, treatment, and pollution control with local, state or federal agencies; environmental consulting with private industry; and other careers that draw on a background in the natural sciences, including law, public policy, and public health.

Total Program Credits: 120

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>32 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020 Intermediate Writing—Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>Complete the following:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700 US History to 1877 (3.0) and HIST 2710 US History since 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0) and HIST 1740 US Economic History (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000 American Heritage (3.0) and POLS 1100 American National Government (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>Complete the following:</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life (2.0)</td>
<td>2</td>
</tr>
<tr>
<td>Distribution Courses</td>
<td>65 Credits</td>
</tr>
<tr>
<td>BIOL 1010 General Biology (fulfills Biology Distribution)</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 1110 Introduction to Environmental Management (fulfills Physical Science Distribution)</td>
<td>3</td>
</tr>
<tr>
<td>GEO 1010 Introduction to Geology (fulfills additional Physical Science Distribution)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>Discipline Core Requirements:</td>
<td>65 Credits</td>
</tr>
<tr>
<td>GEO 1015 Introduction to Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1210 Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1215 Principles of Chemistry I Laboratory</td>
<td>1</td>
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<tr>
<td>CHEM 1220 Principles of Chemistry II</td>
<td>4</td>
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<tr>
<td>CHEM 1225 Principles of Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENVT 1200 Environmental Worker Safety</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 1270 Environmental Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 1300 Environmental Lab and Sampling</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 1510 Hazardous Materials Emergency Response</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 2560 Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 2710 Environmental Careers</td>
<td>1</td>
</tr>
</tbody>
</table>

Elective Requirements: 23 Credits

Choose 23 credit hours from the following list (at least 19 credits must be Upper Division):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 2310</td>
<td>Organic Chemistry I (4.0)</td>
<td></td>
</tr>
<tr>
<td>CHEM 2315</td>
<td>Organic Chemistry I Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>CHEM 2320</td>
<td>Organic Chemistry II (4.0)</td>
<td></td>
</tr>
<tr>
<td>CHEM 2325</td>
<td>Organic Chemistry II Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 1210</td>
<td>Introduction to Water Reclamation (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 1360</td>
<td>Introduction to Water Treatment (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 282R</td>
<td>Environmental Internship (1.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 3010</td>
<td>Environmental Toxicology (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 3320</td>
<td>Hydraulics of Water (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 3330</td>
<td>Water Resources Management (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 3550</td>
<td>Site Investigation (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 3700</td>
<td>Current Topics in Environmental Management (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>ENVT 3750</td>
<td>Land Use Planning (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 3770</td>
<td>Natural Resources Management (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 3800</td>
<td>Energy Use on Earth (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 482R</td>
<td>Geologic/Environmental Internship (1.0)</td>
<td></td>
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<tr>
<td>ENVT 495R</td>
<td>Special Projects in Environmental Management (1.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 3080</td>
<td>Earth Materials (3.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 3000</td>
<td>Geochemistry (3.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 3100</td>
<td>Isotope Geochemistry (3.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 3105</td>
<td>Isotope Geochemistry Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 3200</td>
<td>Geologic Hazards (4.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 3500</td>
<td>Geomorphology (4.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 4500</td>
<td>Sedimentary Geology (4.0)</td>
<td></td>
</tr>
<tr>
<td>GEOG 3400</td>
<td>Environmental Remote Sensing (3.0)</td>
<td></td>
</tr>
<tr>
<td>GEOG 3650</td>
<td>Advanced Geographic Information Systems (4.0)</td>
<td></td>
</tr>
<tr>
<td>GEOG 3700</td>
<td>Wetland Studies (3.0)</td>
<td></td>
</tr>
<tr>
<td>GEOG 4100</td>
<td>Geospatial Field Methods (3.0)</td>
<td></td>
</tr>
<tr>
<td>or other advisor-approved electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above.
Earth Science

3. Grade of C- or better in all ENVT courses.
4. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Environmental Science and Management, B.S.

Careers:
The three degree programs offered by the Department of Earth Science (B.S. in Geology, B.S. in Environmental Science and Management, and B.S. in Earth Science Education) provide a wide range of skills and knowledge that are applicable to today's earth science job markets, as well as a broad science education that's ideal for students planning to continue to graduate programs in law, education, business, or health fields. Our Department graduates professionals who are skilled and creative and who are well prepared to contribute toward solving earth and environmental science challenges faced here in Utah and worldwide.

The Environmental Science and Management B.S. degree is a flexible program that prepares graduates for a variety of exciting and important careers ranging from water and wastewater treatment through jobs monitoring water resources to working with geographic information systems. The degree is also terrific preparation for many careers that draw on a solid background in environmental science, for example in public policy, law, public health, humanitarian work and more. Job prospects are excellent, and potential employers include local, state and federal government agencies and environmental consulting firms. Graduates are well prepared to work with water quality issues, including both monitoring and treating water resources, and a number of graduates are working at local government water treatment plants around the state, ensuring a safe water supply. Others work for environmental consulting firms where they are helping prevent, assess, and remediate water pollution and other environmental hazards; some have chosen to enhance their education in graduate school; and still others work in a range of fields monitoring and maintaining the environment.

Related Careers
- Environmental Scientists and Specialists, Including Health
- Environmental Science Teachers, Postsecondary

Geology, B.S.

Requirements
Geology is the study of the Earth, including its water and atmosphere, and its relationship to humans and other living things. Geology applies chemistry, physics, mathematics and biology to answer questions about the Earth. Geologists conduct studies in the field, in the laboratory using advanced analytical equipment, and in the office using specialized computer software. Geology is particularly focused on the Earth's history, resources, hazards and resources including groundwater. Sub-disciplines of geology include economic geology, geochemistry, geologic hazards, geomorphology, hydrogeology, petrology, and tectonics. A B.S. in geology is preparation for a variety of career paths, including hazard assessment with government or private companies, ground and surface water monitoring and development, oil and gas, mining, and many other careers that draw on a background in the natural earth, including law, public policy, and public health; the program is also excellent preparation for graduate school.

Total Program Credits: 122

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>27 Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020 Intermediate Writing—Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete 21 credits from the following list 21

| BIOL 3800 Conservation Biology (3.0) | |
| ENVT 2730 Introduction to Soils (4.0) | |
| ENVT 3280 Environmental Law (3.0) | |
| ENVT 3290 Environmental Permits and Reports (3.0) | |
| ENVT 4790 Hydrology II (4.0) | |
| GEO 202R Science Excursion (1.0) | |
Earth Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 3000</td>
<td>Geochemistry (3.0)</td>
</tr>
<tr>
<td>GEO 3100</td>
<td>Isotope Geochemistry (3.0)</td>
</tr>
<tr>
<td>GEO 3105</td>
<td>Isotope Geochemistry Laboratory (1.0)</td>
</tr>
<tr>
<td>GEO 3400</td>
<td>Forensic Geology (4.0)</td>
</tr>
<tr>
<td>GEO 3500</td>
<td>Geomorphology (4.0)</td>
</tr>
<tr>
<td>GEO 4080</td>
<td>Petrology (4.0)</td>
</tr>
<tr>
<td>GEO 4510</td>
<td>Paleontology (4.0)</td>
</tr>
<tr>
<td>GEO 482R</td>
<td>Geologic/Environmental Internship (1.0)</td>
</tr>
<tr>
<td>GEOG 3400</td>
<td>Environmental Remote Sensing (3.0)</td>
</tr>
<tr>
<td>GEOG 3650</td>
<td>Advanced Geographic Information Systems (4.0)</td>
</tr>
<tr>
<td>GEOG 3700</td>
<td>Wetland Studies (3.0)</td>
</tr>
<tr>
<td>GEOG 4100</td>
<td>Geospatial Field Methods (3.0)</td>
</tr>
<tr>
<td>METO 1010</td>
<td>Introduction to Meteorology (3.0)</td>
</tr>
<tr>
<td>METO 1020</td>
<td>Introduction to Meteorology Laboratory (1.0)</td>
</tr>
<tr>
<td>METO 3100</td>
<td>Climate and the Earth System (3.0)</td>
</tr>
<tr>
<td>PHYS 2015</td>
<td>College Physics I Lab (1.0)</td>
</tr>
<tr>
<td>PHYS 2025</td>
<td>College Physics II Lab (1.0)</td>
</tr>
</tbody>
</table>

Or other advisor-approved electives

Graduation Requirements:

1. Completion of a minimum of 122 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Grade of C- or better in every GEO course.
4. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Note: *This requirement is satisfied within the discipline core requirements.

Geology, B.S.

Careers:

The three degree programs offered by the Department of Earth Science (B.S. in Geology, B.S. in Environmental Science and Management, and B.S. in Earth Science Education) provide a wide range of skills and knowledge that are applicable to today's earth science job markets, as well as a broad science education that's ideal for students planning to continue to graduate programs in law, education, business, or health fields. Our Department graduates professionals who are skilled and creative and who are well prepared to contribute toward solving earth and environmental science challenges faced here in Utah and worldwide. More specific information on career opportunities related to each degree is provided below.

A bachelor of science in Geology is excellent preparation for a wide range of careers, including geology and closely allied fields, as well as a variety of opportunities that draw upon a graduate's broad and rigorous education in the physical and environmental sciences. Job prospects for graduates are excellent, and work may be largely be field-based, office-based or a combination. Many students continue to graduate school before entering the labor market, while many others take employment upon graduation. Large employers of geologists include the oil and gas industry, mineral exploration and extraction, geologic consulting, and government agencies. In the oil and gas and mining industries many geologists are involved with exploration for additional resources and development of existing resources. Geologic consulting involves work such as assessing and mitigating hazards including landslides, earthquakes and flooding; evaluating slope stability and compaction; and evaluating and protecting surface and ground water resources. Geologists working for government agencies perform interesting tasks ranging from field mapping to land use analysis, investigations of water resources, and working with geographic information systems. However, many graduates have shown that a degree in geology is an effective stepping-stone to a variety of career paths including public policy, law, public health, humanitarian work, and more, particularly when the endeavors involve issues related to the environment.

Related Careers

- Natural Sciences Managers
- Geoscientists, Except Hydrologists and Geographers
- Hydrologists
- Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
Education Graduate Studies

Education Graduate Studies

- **Dean:** Parker Fawson
- **Office:** ME 117b
- **Telephone:** 801-883-8006

- **Associate Dean:** Stan Harward
- **Office:** ME 112a
- **Telephone:** 801-883-6571

- **Assistant to Dean:** Wendi Hillman
- **Office:** ME 117
- **Telephone:** 801-883-6543

Master of Education

- **Coordinator of Graduate Studies:** Mary Sowder
- **Office:** ME 116c
- **Telephone:** 801-883-8228
- **Email:** Mary.Sowder@uvu.edu

- **Graduate Assistant:** Lauriejo Hansen
- **Telephone:** 801-883-5468
- **Email:** Lauriejo.Hansen@uvu.edu

- **Administrative Contact:** Connie Wright
- **Telephone:** 801-883-8217
- **Email:** wrightco@uvu.edu

- **Advisor:** Rick Dumont
- **Office:** ME 114b
- **Telephone:** 801-883-8288
- **Email:** dumontni@uvu.edu

Program Description

The Master of Education (M.Ed.) degree at Utah Valley University is an applied master's degree aimed at building the instructional skill and professional competency of teachers. The goal is to enable participants to become more proficient in selecting optimum, research-based, curriculum design strategies that best apply to specific teaching situations.

There are currently five options within the Curriculum and Instruction Degree:

- Models of Instruction
- English as a Second Language (ESL)
- Elementary Mathematics
- Educational Technology
- Reading I

The M.Ed. requires 30-36 semester hours of graduate course work and completion of a culminating applied instructional project tailored to the particular interests of program participants. Participants enter the M.Ed. program in cohorts and progress through the degree program in a group. While the culminating applied instructional project is unique to each student, some course work and many class activities are done in collaboration with fellow students.

Application to the Program

Applicants should complete an online graduate application by following the application link on the UVU Web site and follow all instructions for graduate application and admission. Applications and application fees must be received by March 31 for consideration for summer semester. Students in the M.Ed. program begin with full-time coursework in the summers and part-time enrollment in the fall and spring semesters.

Required support materials received after the application deadline will delay processing of the application. The School of Education Graduate Screening Committee reviews applications and schedules interviews for applicants meeting minimum admission requirements. The Coordinator of Graduate Studies for the School of Education notifies all applicants in writing of the admission decision. The University cannot guarantee a response on or before a specific date. All admission materials become the property of UVU and will not be returned to the applicant.

Reapplication

If an applicant is not admitted, s/he may reapply. All current admission requirements at the time of application must be met.

Satisfactory Progress

Continuation in the Master of Education program is determined by: (1) satisfactory progress (B- or higher) in all courses and (2) faculty committee chair and the graduate admission and retention committee recommendation.

Academic Probation

A student can be recommended for academic probation for the following reason(s): (1) Failure to meet the scholarship requirements of the Graduate Program of an overall GPA of 3.00 (on a 4.00 scale) or higher, with no individual course grade lower than B-; (2) Failure to complete prescribed courses; and/or (3) Failure to adhere to University student rights and responsibilities standards.

Dismissal from the Program

A student can be dismissed from the Master of Education program for the following reason(s):

1. Academic dishonesty;
2. Continued failure to meet academic standards; and/or
3. Continued failure to adhere to University student rights and responsibilities standards.

Courses

Admission to the master’s program or permission of the Dean of the School of Education is required for enrollment in the Master of Education courses.

| 2015-16 Graduate—Tuition and General Fee Schedule |
|----------------------------------|--------|--------|
| **RESIDENT** | **NON-RESIDENT** |
| **Credit Hours** | **Tuition** | **Fees** | **Total** | **Credit Hours** | **Tuition** | **Fees** | **Total** |
| 0.5 | 131.50 | 17.50 | 149.00 | 0.5 | 401.00 | 17.50 | 418.50 |
| 1.0 | 263.00 | 35.00 | 298.00 | 1.0 | 802.00 | 35.00 | 837.00 |
| 1.5 | 394.50 | 52.50 | 447.00 | 1.5 | 1,203.00 | 52.50 | 1,255.50 |
| 2.0 | 526.00 | 70.00 | 596.00 | 2.0 | 1,604.00 | 70.00 | 1,674.00 |
| 2.5 | 657.50 | 87.50 | 745.00 | 2.5 | 2,005.00 | 87.50 | 2,092.50 |
| 3.0 | 789.00 | 105.00 | 894.00 | 3.0 | 2,406.00 | 105.00 | 2,511.00 |
| 3.5 | 920.50 | 122.50 | 1,043.00 | 3.5 | 2,807.00 | 122.50 | 2,929.50 |
| 4.0 | 1,052.00 | 140.00 | 1,192.00 | 4.0 | 3,208.00 | 140.00 | 3,348.00 |
| 4.5 | 1,183.50 | 157.50 | 1,341.00 | 4.5 | 3,609.00 | 157.50 | 3,766.50 |
| 5.0 | 1,315.00 | 175.00 | 1,490.00 | 5.0 | 4,010.00 | 175.00 | 4,185.00 |
| 5.5 | 1,446.50 | 192.50 | 1,639.00 | 5.5 | 4,411.00 | 192.50 | 4,603.50 |
| 6.0 | 1,578.00 | 210.00 | 1,788.00 | 6.0 | 4,812.00 | 210.00 | 5,022.00 |
| 6.5 | 1,709.50 | 227.50 | 1,937.00 | 6.5 | 5,213.00 | 227.50 | 5,440.50 |
| 7.0 | 1,841.00 | 245.00 | 2,086.00 | 7.0 | 5,614.00 | 245.00 | 5,859.00 |
| 7.5 | 1,972.50 | 262.50 | 2,235.00 | 7.5 | 6,015.00 | 262.50 | 6,277.50 |
| 8.0 | 2,104.00 | 280.00 | 2,384.00 | 8.0 | 6,416.00 | 280.00 | 6,696.00 |

Tuition: 8.0
Fees: 7.5
Total: 7.0
Credit Hours: 6.5
Tuition: 6.0
Fees: 5.5
Total: 5.0
Credit Hours: 4.5
Tuition: 4.0
Fees: 3.5
Total: 3.0
Credit Hours: 2.5
Tuition: 2.0
Fees: 1.5
Total: 1.0
Credit Hours: 0.5

Parker Fawson: ME 112a
Wendi Hillman: ME 114b
Lauriejo Hansen: ME 116c
Connie Wright: ME 117b
Mary Sowder: ME 117a
The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master’s program aimed at building the instructional skills and professional competency of teachers. Currently there are five options for participants: Models of Instruction; English as a Second Language; Elementary Mathematics; Reading I, and Educational Technology. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project a year of successful teaching. Preference will be given to practicing teachers who have access to an established classroom.

**Course Descriptions**

**Degrees & Programs**

**Curriculum and Instruction, M.Ed.**

**Requirements**

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master’s program aimed at building the instructional skills and professional competency of teachers. Currently there are five options for participants: Models of Instruction; English as a Second Language (ESL); Elementary Mathematics; Reading I, and Educational Technology. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

**Total Program Credits: 30**

**Matriculation Requirements:**

1. Application for admission.
2. Bachelor degree from an accredited institution.
3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.
4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.
5. Interview with School of Education Graduate Committee.
6. Three professional letters of recommendation.

Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.

**Preference will be given to practicing teachers who have access to an established classroom.**

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6100</td>
<td>Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6110</td>
<td>Applied Statistics for Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6200</td>
<td>Masters Project</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6910</td>
<td>Project I</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 6920</td>
<td>Project II</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 693R</td>
<td>Project III</td>
<td>1</td>
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</table>

Complete one of the following five options.

**Option One: Models of Instruction:**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUC 6300</td>
<td>Curriculum Design</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6310</td>
<td>Program Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6320</td>
<td>Instruction Models I</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6330</td>
<td>Instruction Models II</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6400</td>
<td>Transformational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6410</td>
<td>Contemporary Issues</td>
<td>3</td>
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</table>

**Option Two: English as a Second Language:**

<table>
<thead>
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<tbody>
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<td>EDUC 6340</td>
<td>English as a Second Language Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6350</td>
<td>Theories of Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6360</td>
<td>Multicultural Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6370</td>
<td>Assessment of Second Language Learners</td>
<td>3</td>
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<tr>
<td>EDUC 6380</td>
<td>Literacy and Linguistics in English as a Second Language</td>
<td>3</td>
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<tr>
<td>EDUC 6390</td>
<td>Family and Community Involvement</td>
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</tbody>
</table>

**Option Three: Elementary Mathematics:**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUC 6500</td>
<td>Teaching K-8 Numbers and Operations</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6510</td>
<td>Teaching K-8 Rational Numbers and Proportional Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6520</td>
<td>Teaching K-8 Algebraic Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6530</td>
<td>Teaching K-8 Geometry and Measurement</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6540</td>
<td>Teaching K-8 Data Analysis and Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6550</td>
<td>Teaching K-8 Assessment and Intervention</td>
<td>3</td>
</tr>
</tbody>
</table>

**Option Four: Educational Technology:**

<table>
<thead>
<tr>
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<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>EDUC 6800</td>
<td>Cognition, Education and Technology</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6810</td>
<td>Instruction, Curriculum and Educational Leadership in the Digital Age</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6820</td>
<td>Designing and Producing Media for Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6830</td>
<td>Digital Models of Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6840</td>
<td>Universal Design for Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6850</td>
<td>Digital Course Design Capstone</td>
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</tbody>
</table>

**Option Five: Reading I:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6660</td>
<td>Reading Assessments and Instruction Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6661</td>
<td>Literacy and Cognition of Reading</td>
<td>3</td>
</tr>
</tbody>
</table>
Dual Language Immersion, Endorsement

**Careers**
While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Program options in English as a Second Language, Educational Technology, Elementary Mathematics, and Reading I will also qualify students to apply for an endorsement to their current Utah Teaching Certificate.

**Related Careers**
- Kindergarten Teachers, Except Special Education
- Elementary School Teachers, Except Special Education
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education
- Adult Basic and Secondary Education and Literacy Teachers and Instructors
- Teachers and Instructors, All Other

**Educational Technology, Endorsement Requirements**
The Educational Technology endorsement program emphasizes coursework that prepares classroom teachers to incorporate the latest technological tools into effective instructional practice. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

**Total Program Credits: 18**

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 15 Credits</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 5700 Foundations of Dual Language Immersion Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5300 Content-based Curriculum, Instruction, and Assessment</td>
<td>3</td>
</tr>
</tbody>
</table>

| or EDUC 6820 Designing and Producing Media for Instruction for Practitioners (3.0) | 3 |
| EDUC 5820 Designing and Producing Media for Instruction for Practitioners (3.0) | 3 |
| EDUC 5830 Digital Models of Instruction for Practitioners (3.0) | 3 |
| EDUC 6830 Digital Models of Instruction (3.0) | 3 |
| EDUC 5840 Universal Design for Learning for Practitioners (3.0) | 3 |

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**Footnotes**

* This option may allow the transfer of up to 12 credits from 5000 level courses taken in this area of study; however, 6 additional credits of master's level courses would be required. Please contact your advisor for more information.

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**Curriculum and Instruction, M.Ed.**

**Careers**

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

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**Education Graduate Studies**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EDUC 662</td>
<td>Early Literacy Instruction (3.0)</td>
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<tr>
<td>EDUC 663</td>
<td>Content Area Reading (3.0)</td>
</tr>
<tr>
<td>EDUC 664</td>
<td>Adolescent Literacy (3.0)</td>
</tr>
<tr>
<td>EDUC 665</td>
<td>Reading Comprehension Instruction (3.0)</td>
</tr>
<tr>
<td>EDUC 666</td>
<td>Effective Writing Instruction (3.0)</td>
</tr>
</tbody>
</table>

**Other degree options as approved by the Dean of the UVU School of Education**

**Graduation Requirements:**

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

**Dual Language Immersion, Endorsement**

**Careers**

The Dual Language Immersion (DLI) Endorsement program is designed to prepare teachers to be sensitive and responsive to the needs of dual language immersion (DLI) learners and to become advocates for DLI in a variety of educational settings. Coursework is designed to address historical and political foundations of DLI education and methods and materials for engaging DLI students in challenging educational experiences. The UVU endorsement program is intended to provide educators with an opportunity to develop, expand, and integrate their knowledge of content, pedagogy, and cultural perspectives in dual language immersion education. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

**Total Program Credits: 15**

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 15 Credits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 5700 Foundations of Dual Language Immersion Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5300 Content-based Curriculum, Instruction, and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>or EDUC 6820 Designing and Producing Media for Instruction for Practitioners (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or EDUC 6830 Digital Models of Instruction for Practitioners (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or EDUC 5840 Universal Design for Learning for Practitioners (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>
Elementary Mathematics, Endorsement

Requirements
The Elementary Mathematics program emphasizes coursework that better prepares teachers in the elementary classroom in mathematical content and pedagogy, including courses in six key areas of mathematics. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Total Program Credits: 18

Discipline Core Requirements: 18 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 5500</td>
<td>Teaching K-8 Numbers and Operations for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or EDUC 6500</td>
<td>Teaching K-8 Numbers and Operations (3.0)</td>
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<tr>
<td>EDUC 5510</td>
<td>Teaching K-8 Rational Numbers and Proportional Reasoning for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or EDUC 6510</td>
<td>Teaching K-8 Rational Numbers and Proportional Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 5520</td>
<td>Teaching K-8 Algebraic Reasoning for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or EDUC 6520</td>
<td>Teaching K-8 Algebraic Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 5530</td>
<td>Teaching K-8 Geometry and Measurement for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or EDUC 6530</td>
<td>Teaching K-8 Geometry and Measurement (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 5540</td>
<td>Teaching K-8 Data Analysis and Problem Solving for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or EDUC 6540</td>
<td>Teaching K-8 Data Analysis and Problem Solving (3.0)</td>
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</tr>
<tr>
<td>EDUC 5550</td>
<td>Teaching K-8 Assessment and Intervention for Practitioners</td>
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</tr>
<tr>
<td>or EDUC 6550</td>
<td>Teaching K-8 Assessment and Intervention (3.0)</td>
<td></td>
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</tbody>
</table>

Elementary Mathematics, Endorsement Careers

Careers:

While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

Related Careers

- Audio-Visual and Multimedia Collections Specialists

English as Second Language, Endorsement

Requirements
The English as a Second Language program emphasizes coursework that aids teachers in becoming better skilled at meeting the needs of English language learners in the K-12 classroom, and better prepared to understand the many cultural and community influences that may influence student learning. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Total Program Credits: 18

Discipline Core Requirements: 18 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
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<tr>
<td>EDUC 5340</td>
<td>Methods of Second Language Acquisition for Practitioners</td>
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<td>or EDUC 6340</td>
<td>English as a Second Language Methods (3.0)</td>
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<tr>
<td>EDUC 5350</td>
<td>Theories of Second Language Acquisition for Practitioners</td>
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<td>or EDUC 6350</td>
<td>Theories of Second Language Acquisition (3.0)</td>
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<tr>
<td>EDUC 5360</td>
<td>Multicultural Education for Practitioners</td>
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<td>EDUC 5370</td>
<td>Assessment for Second Language Learners for Practitioners</td>
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<tr>
<td>or EDUC 6370</td>
<td>Assessment of Second Language Learners (3.0)</td>
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<td>EDUC 5380</td>
<td>Second Language Literacy Development for Practitioners</td>
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<td>Literacy and Linguistics in English as a Second Language (3.0)</td>
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<td>EDUC 5390</td>
<td>Family and Community Involvement for Practitioners</td>
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</table>

English as Second Language, Endorsement Careers

Careers:

While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

Related Careers

- Kindergarten Teachers, Except Special Education
- Elementary School Teachers, Except Special Education
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education
- Adult Basic and Secondary Education and Literacy Teachers and Instructors
- Teachers and Instructors, All Other

Gifted and Talented, Endorsement

Requirements
The Utah Valley University Gifted and Talented endorsement program is designed to prepare teachers to be sensitive and responsive to the needs of gifted and talented (GT) learners and to become advocates for their students in a variety of educational settings, whether they become teachers in Gifted and Talented programs or teachers who work with these learners in the mainstream classroom setting. Coursework is
designed to address historical and political foundations of GT education, the social and emotional needs of these learners, and methods and materials for engaging GT students in challenging educational experiences. The UVU endorsement program is intended to provide educators with an opportunity to develop, expand, and integrate their knowledge of content, pedagogy, and cultural perspectives in gifted and talented education.

**Total Program Credits: 18**

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUC 5600 Education of the Gifted and Talented</td>
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<tr>
<td>EDUC 5610 Social and Emotional Needs of the Gifted</td>
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</tr>
<tr>
<td>EDUC 5620 Identification/Evaluation in Gifted Education</td>
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<tr>
<td>EDUC 5630 Curriculum and Materials in Gifted Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5640 Improvement of Curriculum Instruction in the Content Areas</td>
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</tr>
<tr>
<td>EDUC 5650 Leadership in Gifted and Talented Education</td>
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</table>

**Gifted and Talented, Endorsement Careers**

Careers:

While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for opportunities for teaching in Gifted and Talented programs, expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

**Related Careers**

- Instructional Coordinators

**Reading I, Endorsement Careers**

Careers:

While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for opportunities for teaching in specialized reading programs, expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

**Related Careers**

- Instructional Coordinators

**Reading I, Endorsement Requirements**

The Reading Endorsement Program (REP) is designed to prepare teachers to be responsive to current scientific-reading research for teaching reading and to become advocates for reading research in the educational setting. Coursework is designed to address historical and political foundations of reading education and methods and materials for engaging students in challenging educational experiences. The UVU endorsement program is intended to provide educators with an opportunity to develop, expand, and integrate their knowledge of cognition, content, pedagogy, and cultural perspectives in their curriculum. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

**Total Program Credits: 21**

<table>
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<tr>
<td>EDUC 5661 Literacy and Cognition of Reading for Practitioners (3.0)</td>
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<tr>
<td>EDUC 5662 Early Literacy Instruction for Practitioners (3.0)</td>
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<tr>
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<td>3</td>
</tr>
<tr>
<td>EDUC 5663 Content Area Reading for Practitioners (3.0)</td>
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Elementary Education

<table>
<thead>
<tr>
<th>Name:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>ME 116</td>
</tr>
<tr>
<td>Telephone:</td>
<td>801-863-8228</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:eled@uvu.edu">eled@uvu.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td>uvu.edu/education/elementary/</td>
</tr>
<tr>
<td>Chair:</td>
<td>Mike Patch</td>
</tr>
</tbody>
</table>

Mission Statement

The School of Education prepares competent, caring and qualified individuals who are ready to assume the role of teacher in elementary and secondary schools, as well as prepare them for further career choices and advancement.

The professional program provides essential coursework and experiences to support students as they progress toward becoming professional educators. Students are engaged in research-based and standards-based instruction in content and pedagogy. Candidates are expected to plan, instruct, and assess in a manner that meets curriculum, school and district goals as well as the diverse instructional and experiential needs of all students. Candidates reflect on their own practice and performance, analyze progress, and make choices for future professional growth. In the Master’s program, new knowledge is put into practice in students’ own classrooms. Graduates acquire knowledge, skills, and dispositions to positively impact students, the community, and themselves as they continue on the journey of life-long learning.

Elementary Education

- **Administrative Support:** Connie Wright
  - **Office:** ME 116
  - **Telephone:** 801-863-8228
  - **Email:** WRIGHTCO@uvu.edu
- **Field Coordinator:** Richard Allred
  - **Office:** ME 131c
  - **Telephone:** 801-863-6580
  - **Email:** Richard.Allred@uvu.edu

Advisement Center:

- **Administrative Contact:** KayLynn Palmer
  - **Office:** ME 114
  - **Telephone:** 801-863-8478
  - **Email:** palmerka@uvu.edu

Advisors:

- Leslie Hudson
  - **Office:** ME 114f
  - **Telephone:** 801-863-8478
  - **Email:** hudsonle@uvu.edu

- Shaunna Requilman
  - **Office:** ME 114d
  - **Telephone:** 801-863-8478
  - **Email:** requilsh@uvu.edu

- Kim Fale
  - **Office:** ME 114a
  - **Telephone:** 801-863-5184
  - **Email:** kim.fale@uvu.edu

Elementary Education Partner Districts

- Alpine School District
- Canyons School District

Granite School District
- Jordan School District
- Nebo School District
- North Summit School District
- Park City School District
- Provo School District
- South Summit School District
- Wasatch School District

Early Childhood Education Program

The Early Care and Education program is strongly aligned with community needs. It provides instruction and preparation for those seeking to work with young children in preschool and day care facilities. It provides a strong experiential program through course work, observations and practicum.

Professional Elementary Teacher Education Program

The Professional Elementary Teacher Education Program at Utah Valley University is designed to prepare quality, entry-level candidates for teaching in elementary education programs grades K-6. Students successfully completing the UVU professional teacher education program graduation and licensure requirements receive a baccalaureate degree in Elementary Education and a Level I Utah Professional Teaching License.

The UVU teacher education initial licensure program is accredited by the Council for the Accreditation of Education Preparation (CAEP), the Utah State Office of Education, and the Northwest Commission on Colleges and Universities.

Admission to the Teacher Education Licensure Program is a separate process from and in addition to admission to Utah Valley University. Meeting the minimum requirements qualifies the student to be considered for admission.

Career Opportunities

Early Childhood Education Program

Career opportunities include: teaching in early childhood programs and child care centers, Head Start teacher and teacher aide, teacher aide in elementary school, teacher aide in special education classes, owner and/or director of preschool or child care center.

Professional Elementary Teacher Education Program

Career opportunities result from completion of the UVU Professional Teacher Education Program, which qualifies students for an Elementary Education Professional Educator License.

Certain Elementary Education (EDEL) and Early Childhood Education (EDEC) courses transfer to other institutions offering these programs.

Degrees/License

Degrees available: Certificate of Completion in Early Care and Education; Associate in Science (AS) in Early Childhood Education; Associate in Science (AS) in Pre-Elementary Education; Baccalaureate of Science Degree (BS) in Elementary Education. The State of Utah offers Professional Educator Licenses for Elementary Education for grades K-6, grades K-3, and grades 1-8.

Admission & Retention

Admission to the Education Program is required for enrollment in professional studies level courses. Admission criteria*: 1) Praxis II (5001) Scores (required scores: Read/Lang, Art = 165, Math = 165, Social Studies = 155, Science = 159); 2) ACT/Composite 21, Math 19, Verbal 20; 3) GPA of 3.00 or higher (including B- or higher in all pre-professional emphasis courses); 4) an interview directed by the Teacher Education Admission and Retention Committee, and 5) Completion of the coursework for the Associate of Science degree in Pre-Elementary Education or equivalent. Applicants are accepted into the Teacher Education Program for fall and spring semesters after meeting entrance requirements.

*Please contact the Elementary Education Advisors for the current admission requirements. Admission to the teacher education licensure program is a separate process from and in addition to admission to Utah Valley University. Meeting the minimum requirements qualifies the student to be considered for admission.
Elementary Education

To continue in the program, students are expected to maintain all program standards. They must maintain expected levels of competence in all coursework, field work, and student teaching with all course grades at or above a B- and a program GPA of 3.00 or higher. Additionally, teacher candidates are expected to adhere to standards of personal integrity, responsibility, and citizenship commonly expected of professional educators.

Persons who hold a valid (current or expired) Professional Elementary Education Teaching License may pursue relicensing course work through the School of Education.

School of Education
- Dean: Parker Fawson
- Office: ME 117b
- Telephone: 801-863-8006

DEPARTMENT CHAIR
PATCH, Michael Associate Professor

FACULTY
BRANDT, Lorilynn B. Associate Professor
BYRD, Elaine H. Professor
ESCALANTE, Debora L. Associate Professor
GLAZIER, Keri Lecturer
ILIEVA, Vessela Associate Professor
JAY, Sandy Assistant Professor
KANG, Mi Ok Assistant Professor
PATCH, Michael Associate Professor
PETE, Nancy L. Professor
SERMON, Tracy Sr. Lecturer
SHARP, Ann C. Assistant Professor
SIMMERMAN, Susan Associate Professor
SOWDER, Mary Associate Professor
TUFT, Elaine Associate Professor
WANGSGARD, Nichole Associate Professor
WATTERS, Sandie Associate Professor
WOMACK, Sue Assistant Professor

Course Descriptions
Edu Child and Family Studies.................................................................600
Edu Early Childhood Education..........................................................602
Edu Elementary Education.................................................................603
Edu Special Education........................................................................606

Degrees & Programs
Early Childhood Education, A.S.

Requirements
Individuals who earn an Associate Degree in Early Childhood Education are prepared to teach preschool in private and corporate centers, Head Start, and public education tuition preschools, or work as center directors. The Associate Degree in Early Childhood can be planned to fill the majority of the requirements for entry into the Elementary Education Program. The UVU Early Childhood Education program is accredited by the Northwest Commission on Colleges and Universities. The UVU Teacher Education Preschool is accredited by the National Association for the Education of Young Children.

Total Program Credits: 60

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>36 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
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</table>

or

ENGL 2020 Intermediate Writing--Science and Technology (3.0)

MATH 1050 College Algebra 4

Complete one of the following:

HIST 2700 US History to 1877 (3.0)

HIST 1710 US History since 1877 (3.0)

HIST 1700 American Civilization (3.0)

HIST 1720 US Economic History (3.0)

POLS 1000 American Heritage (3.0)

POLS 1100 American National Government (3.0)

Complete the following:

PHIL 2050 Ethics and Values 3

HLTH 3100 Health Education for Elementary Teachers 2

Distribution Courses:
- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Humanities Distribution 3
- Fine Arts Distribution 3
- PSY 1100 Human Development Life Span ("C" grade or higher) 3

Discipline Core Requirements: 23 Credits

EDEL 2200 Computer Technology in Education 2

EDEC 2300 Including Young Diverse Learners 2

EDEC 2500 Child Development Birth to Eight Years 3

EDEC 2600 Introduction to Early Childhood Education 2

EDEC 2610 Child Guidance 3

EDEC 2620 Early Childhood Curriculum 3

EDEC 2630 Literacy and Literature for Early Childhood 3

EDEC 2700 Early Childhood Practicum 3

EDEC 2720 Early Childhood Assessment 2

Elective Requirements: 1 Credits

or Any Advisor Approved elective 1

Graduation Requirements:
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. C- grade or higher in all program classes unless otherwise specified.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. First aid/CPR certification, food handler's permit, portfolio review and acceptance by Education Committee

Early Childhood Education, A.S.

Careers
Teaching in early childhood programs and child care centers, Head Start teacher and teacher aide, teacher aide in elementary school, owner and director of preschool or child care center, Head Start Head Teacher.
Related Careers
• Preschool Teachers, Except Special Education
• Kindergarten Teachers, Except Special Education

Pre-Elementary Education, A.S.
Requirements
Prepares students for matriculation into the Bachelor of Science Professional Elementary Education program.

Total Program Credits: 61

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
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</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)</td>
<td></td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
</tr>
</tbody>
</table>

Complete the following:

| PHIL 2050 Ethics and Values | 3 |
| HALTH 3100 Health Education for Elementary Teachers | 2 |

Distribution Courses:

| Biology | 3 |
| Physical Science | 3 |
| Additional Biology or Physical Science | 3 |
| Humanities Distribution | 3 |
| Fine Arts Distribution | 3 |
| PSY 1100 Human Development Life Span (Social/Behavioral Science) | 3 |

Discipline Core Requirements: 15 Credits

Complete the following:

| EDEL 2200 Computer Technology in Education | 2 |
| EDEL 1010 Introduction to Education | 2 |
| EDEL 2330 Children's Literature | 3 |
| EDSP 3400 Exceptional Students | 2 |
| MATH 2010 Mathematics for Elementary Teachers I | 3 |
| MATH 2020 Mathematics for Elementary Teachers II | 3 |

Elective Requirements: 10 Credits

Complete 10 of course 1000 or higher. The following is a list of recommended courses to choose from (the courses required for a degree in Early Childhood License are grouped together):

| ART 3400 Elementary Art Education Methods (3.0) | |
| MUSC 3400 Music in the Elementary School (2.0) | |
| DANC 3400 Dance in the Elementary School (2.0) | |

Graduation Requirements:
1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Pre-Elementary Education, A.S.
Careers
Careers:
Teacher aid within the Utah public or private education systems.

Related Careers
• Preschool Teachers, Except Special Education
• Kindergarten Teachers, Except Special Education

Early Care and Education, Certificate of Completion
Requirements
This certificate is for students interested in increasing their skills in working with children in child care and preschool programs. Individuals are prepared to work as technicians in public education classrooms and as teacher aides in private centers or Head Start.

Total Program Credits: 30

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>28 Credits</th>
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</thead>
<tbody>
<tr>
<td>PSY 1100 Human Development Life Span (C grade or higher)</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 1640 Childrens Music and Movement</td>
<td>2</td>
</tr>
<tr>
<td>EDEC 2300 Including Young Diverse Learners</td>
<td>2</td>
</tr>
<tr>
<td>or EDSP 3400 Exceptional Students (2.0)</td>
<td></td>
</tr>
<tr>
<td>EDEC 2500 Child Development Birth to Eight Years</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 2600 Introduction to Early Childhood Education</td>
<td>2</td>
</tr>
<tr>
<td>EDEC 2610 Child Guidance</td>
<td>3</td>
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<tr>
<td>EDEC 2620 Early Childhood Curriculum</td>
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<td>EDEC 2630 Literacy and Literature for Early Childhood</td>
<td>3</td>
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<tr>
<td>EDEC 2700 Early Childhood Practicum</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 2720 Early Childhood Assessment</td>
<td>2</td>
</tr>
<tr>
<td>EDEL 2200 Computer Technology in Education</td>
<td>2</td>
</tr>
</tbody>
</table>

Elective Requirements: 2 Credits
Advisor Approval | 2 |

Graduation Requirements:
Elementary Education

1. Completion of a minimum of 30 semester credits.
2. Overall grade point average of 2.0 (C) or above. C- grade or higher in all program courses unless otherwise specified.
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. First aid/CPR certification, food handler’s permit, portfolio review and acceptance by Education Committee.

Early Care and Education, Certificate of Completion

Careers:

Individuals are prepared to work as aides in public education preschool classrooms, private centers, Head Start, or own and direct a private preschool or child care center.

Related Careers

• Preschool Teachers, Except Special Education
• Kindergarten Teachers, Except Special Education

Elementary Education, B.S.

Requirements

The Professional Elementary Teacher Education Program at Utah Valley University is designed to prepare quality, entry level candidates for teaching in elementary education programs grades K-6. Students successfully completing the UUV professional teacher education program graduation and licensure requirements receive a baccalaureate degree in Elementary Education and a Level I Utah Professional Teaching License.

To continue in the teacher education program, students are expected to maintain all program standards. They must maintain expected levels of competence in all coursework, field work, and student teaching with all course grades at or above a B- and a program GPA of 3.00 or higher. Additionally, teacher candidates are expected to adhere to standards of personal integrity, responsibility, and citizenship commonly expected of professional educators. The UVU teacher education program is accredited by the Teacher Education Accreditation Council (TEAC), the Utah State Office of Education, and the Northwest Commission on Colleges and Universities.

Total Program Credits: 120

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>36 Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740 US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000 American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100 American National Government (3.0)</td>
<td></td>
</tr>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3100 Health Education for Elementary Teachers</td>
<td>2</td>
</tr>
<tr>
<td>Distribution Courses:</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Biology or Physical Science 3

Humanities Distribution 3

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>74 Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 3400 Elementary Art Education Methods (fulfills Fine Arts)</td>
<td>3</td>
</tr>
<tr>
<td>or THEA 2200 Theatre and Drama in the Elementary School (fulfills Fine Arts) (3.0)</td>
<td></td>
</tr>
<tr>
<td>or MUSC 3400 Music in the Elementary School (fulfills Fine Arts) (2.0)</td>
<td></td>
</tr>
<tr>
<td>and DANC 3400 Dance in the Elementary School (2.0)</td>
<td></td>
</tr>
<tr>
<td>PSY 1100 Human Development Life Span (“C” grade or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

Pre-Professional Core Requirements: *

<table>
<thead>
<tr>
<th>Professional Education Core Requirements:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEL 1010 Introduction to Education</td>
<td>2</td>
</tr>
<tr>
<td>EDEL 2200 Computer Technology in Education **</td>
<td>2</td>
</tr>
<tr>
<td>EDEL 2330 Children’s Literature **</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 3400 Exceptional Students **</td>
<td>2</td>
</tr>
<tr>
<td>MATH 2010 Mathematics for Elementary Teachers I **</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2020 Mathematics for Elementary Teachers II</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 10 Credits

Complete additional credits to meet requirements 10

Recommended elective courses:

| ART 3400 Elementary Art Education Methods (If not already taken) (3.0) | |

3 Credits

74 Credits

10 Credits

10 Credits
THEA 2200  Theatre and Drama in the Elementary School (If not already taken) (3.0)
DANC 3400  Dance in the Elementary School (If not already taken) (2.0)
MUSC 3400  Music in the Elementary School (If not already taken) (2.0)
PETE 2150  Elementary Physical Education SPARK Method (2.0)

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA).
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Application forms are available at the beginning of each Spring semester, must be completed by March 1st, and can be obtained in the Education Department, 801-863-8527.

Footnotes

* Students must complete all Pre-Professional and General Education courses with an overall GPA of 3.0 before they are formally admitted into the Teacher Preparation Program.

** Must be completed with a grade of B- or higher

Elementary Education, B.S.

Careers

Career opportunities result from completion of the UVU Professional Teacher Education Program which qualifies students for a Level I Utah Professional Teaching License for grades K-6.

Related Careers

• Elementary School Teachers, Except Special Education
Emergency Services

Name: Emergency Services
Location: FS 217
Telephone: 801-863-7798
Email: emsa@uvu.edu
Web Address: uvu.edu/esa/
Chair: Gary Noll

Mission Statement
The mission of the department of Emergency Services at Utah Valley University is to support emergency services, crisis and disaster relief through excellence and innovation in education, training, scholarship, and service.

Emergency Services
Advisors:
Bonnie Lamb
- Office: FS 214
- Telephone: 801-863-7798
- Email: emsa@uvu.edu

Kim Sparks
- Office: FS 216
- Telephone: 801-863-7798
- Email: emsa@uvu.edu

DEPARTMENT CHAIR
NOLL, Gary B. Professor

FACULTY
ALLRED, Steven Associate Professor
BROOME, Rodger Assistant Professor
BYRNES, Andrew Associate Professor
FISHER, John Associate Professor
MAXFIELD, Jeff Professor
MITTELMAN, Margaret A. Professor
NOLL, Gary B. Professor
RUSSELL, Eric James Assistant Professor

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Emergency Services Emergency Care ................................................................. 625
Emergency Services Firefighting .......................................................................... 627
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Emergency Services Management ....................................................................... 631
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Fire Science Firefighter ....................................................................................... 643

Degrees & Programs
Emergency Services - Aviation Fire Officer Emphasis, A.A.S.

Requirements
This program fills a need for a comprehensive aerospace emergency services curriculum to meet the challenges of the aircraft rescue fire fighting career field.

Total Program Credits: 63

General Education Requirements: 16 Credits
ENGL 1010 Introduction to Writing (3.0) 3
ESFO 1350 Fire Protection Hydraulics and Water Supply (3.0) 3
or MAT 1010 Intermediate Algebra (4.0)
or MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)

Any approved Humanities, Fine Arts, or Foreign Language Distribution Course (COMM 1020 Recommended) 3
Any approved Behavioral Science, Social, or Political Science Distribution Course (PSY 1010 or SOC 1010 Recommended) 3
Any approved Biology or Physical Science Distribution Course 3
Any approved Physical Education, Health, Safety or Environment Course (PES 1097 recommended) 1

Discipline Core Requirements: 16 Credits
ESEC 1140 Emergency Medical Technician--Basic (9.0) 9
ESFF 1000 Introduction to Emergency Services and Ability Testing (4.0) 4
ESFF 2100 The Desire to Serve (3.0) 3

Emphasis Requirements: 15 Credits
ESAF 2100 Airport Firefighter (3.0) 3
ESAF 2110 Aircraft Related Mass Casualty Incidents (3.0) 3
ESAF 2120 Aircraft Mishaps (3.0) 3
ESAF 2130 Aviation Terrorism Response (3.0) 3
ESAF 2140 Airport Operations for the Emergency Responder (3.0) 3

Emphasis Elective Requirements: 16 Credits
Any Emergency Services or related advisor approved courses 16

Graduation Requirements:
1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Emergency Services - Aviation Fire Officer Emphasis, A.A.S.

Careers

Careers:
Students who complete this degree are eligible for promotion in the fire service.

Related Careers

- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
Emergency Services - Fire Officer Emphasis, A.A.S.

Requirements

Our degree provides our students with the knowledge, skills, and abilities to assist them in obtaining a job in Emergency Services, or if already employed, to give them the knowledge, skills, and abilities to advance in their careers.

Total Program Credits: 63

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>16 Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing (3.0)</td>
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<td>ESFO 1350 Fire Protection Hydraulics and Water Supply (3.0)</td>
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<tr>
<td>ESEC 1140 Emergency Medical Technician--Basic (9.0)</td>
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</table>

<table>
<thead>
<tr>
<th>Emphasis Requirements:</th>
<th>15 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose 15 credits from the following:</td>
<td></td>
</tr>
<tr>
<td>ESFO 1100 Fire Behavior and Combustion (3.0)</td>
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</tr>
<tr>
<td>ESFO 1110 Fire Prevention (3.0)</td>
<td></td>
</tr>
<tr>
<td>ESFF 1120 Principles of Fire and Emergency Services Safety and Survival (3.0)</td>
<td></td>
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<tr>
<td>ESFO 1350 Fire Protection Hydraulics and Water Supply (3.0)</td>
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<tr>
<td>ESFO 2030 Fire Inspector I (3.0)</td>
<td></td>
</tr>
<tr>
<td>ESFO 2050 Fire Protection and Detection Systems (3.0)</td>
<td></td>
</tr>
<tr>
<td>ESFO 2080 Building Construction for the Fire Services (3.0)</td>
<td></td>
</tr>
<tr>
<td>ESFO 2100 Fire Officer I: Supervision and Leadership (3.0)</td>
<td></td>
</tr>
<tr>
<td>ESFO 2310 Fire Investigator I (3.0)</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Any Emergency Services or related advisor approved courses</td>
<td>16</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

NOTE: Upon completion, students are eligible to apply for certification at the Fire Inspector I, Fire Investigator, Fire Service Instructor I, Fire Service Instructor II, Fire Officer I, and Fire Officer II levels through the Utah Fire Service Certification system.

Emergency Services - Fire Officer Emphasis, A.A.S. Careers

Careers:

Students who complete this degree are prepared to gain employment or promotion in the fire service.

Related Careers

- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists

Emergency Services - Firefighter/Emergency Care Emphasis, A.A.S.

Requirements

Our degree provides our students with the knowledge, skills, and abilities to assist them in obtaining a job in Emergency Services, or if already employed, to give them the knowledge, skills, and abilities to advance in their careers.

Total Program Credits: 63

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</tr>
<tr>
<td>or MAT 1010 Intermediate Algebra (4.0)</td>
<td></td>
</tr>
<tr>
<td>or MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>16 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESEC 1140 Emergency Medical Technician--Basic (9.0)</td>
<td>9</td>
</tr>
<tr>
<td>ESFF 1000 Introduction to Emergency Services and Ability Testing (4.0)</td>
<td>4</td>
</tr>
<tr>
<td>ESFF 2100 The Desire to Serve (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emphasis Requirements:</th>
<th>15 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one of the following options:</td>
<td></td>
</tr>
<tr>
<td>Firefighter Option</td>
<td></td>
</tr>
<tr>
<td>ESFF 250A Firefighter Recruit Candidate Academy I (8.0)</td>
<td></td>
</tr>
<tr>
<td>ESFF 250B Firefighter Recruit Candidate Academy II (8.0)</td>
<td></td>
</tr>
</tbody>
</table>

| Student/Non-Affiliated Option | |
|--------------------------------||
| ESEC 3110 Paramedic I (5.0) | |
| ESEC 3120 Paramedic I Lab (3.0) | |
| ESEC 3130 Paramedic II (7.0) | |

| Paramedic/Affiliated Option | |
|---------------------------||
| ESMG 491R Topics in Cardiology and Medical Trends (Repeatable for a maximum of 6 credits) (1.0) | |
| ESMG 492R Topics in Trauma and Pharmacology (Repeatable for a maximum of 6 credits) (1.0) | |
Emergency Services

ESMG 493R  Topics in Medical Litigation (Repeatable for a maximum of 4 credits) (1.0)

Emphasis Elective Requirements: 16 Credits
Any Emergency Services or related advisor approved courses 16

Graduation Requirements:
1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours – minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

NOTE: Upon completion, students are eligible to apply for certification as an Emergency Medical Technician-Paramedic through the Utah Bureau of Emergency Medical Services.

Emergency Services - Firefighter/Emergency Care Emphasis, A.A.S.

Careers

Careers:
Students who complete this degree are prepared to gain employment or promotion in the fire service or emergency field.

Related Careers
- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists

Emergency Services, A.S.

Requirements
Our degree provides our students with the knowledge, skills, and abilities to assist them in obtaining a job in Emergency Services, or if already employed, to give them the knowledge, skills, and abilities to advance in their careers.

Total Program Credits: 60

General Education Requirements: 35 Credits
Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0) (recommended for Social Science majors)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

POLS 1100    American National Government 3.0

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or POLS 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 25 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESFF 1000</td>
<td>Introduction to Emergency Services and Ability Testing</td>
<td>4</td>
</tr>
<tr>
<td>or ESFF 100A</td>
<td>Introduction to Emergency Services (3.0)</td>
<td></td>
</tr>
<tr>
<td>and ESFF 100B</td>
<td>Firefighter Physical Ability Testing (1.0)</td>
<td></td>
</tr>
<tr>
<td>or Sufficient Emergency Services work experience</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESFF 2100</td>
<td>The Desire to Serve</td>
<td>3</td>
</tr>
<tr>
<td>Any Emergency Services advisor approved courses</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours – minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Emergency Services, A.S.

Careers

Careers:
Students who complete this degree are prepared to gain employment or promotion in the fire service, emergency services, or law enforcement.

Related Careers
- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists

Wildland Fire Management, A.A.S.

Requirements
Our degree provides our students with the knowledge, skills, and abilities to assist them in obtaining a job in Wildland Firefighting, or if already employed, to give them the knowledge, skills, and abilities to advance in their careers.

Total Program Credits: 63

General Education Requirements: 16 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ESFO 1350</td>
<td>Fire Protection Hydraulics and Water Supply</td>
<td></td>
</tr>
<tr>
<td>or MAT 1010</td>
<td>Intermediate Algebra (4.0)</td>
<td></td>
</tr>
<tr>
<td>or MAT 1000</td>
<td>Integrated Beginning and Intermediate Algebra (5.0)</td>
<td></td>
</tr>
</tbody>
</table>

Related Careers
- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
Any approved Humanities, Fine Arts, or Foreign Language Distribution Course (COMM 1020 Recommended) 3
Any approved Behavioral Science, Social, or Political Science Distribution Course (PSY 1010 or SOC 1010 Recommended) 3
Any approved Biology or Physical Science Distribution Course 3
Any approved Physical Education, Health, Safety or Environment Course (PES 1097 recommended) 1

Discipline Core Requirements: 18 Credits
Choose 18 credits from the following: 18

ESWF 1310 S131 Firefighter Type 1 (0.5)
ESWF 1330 S133 Look Up Look Down Look Around (0.5)
ESWF 1400 Wildland Firefighting Fundamentals (4.0)
ESWF 1410 Wildland Firefighter Internship I (5.0)
ESWF 1420 Wildland Firefighter Internship II (5.0)
ESWF 2000 S200 Initial Attack Incident Commander Type 4 (1.0)
ESWF 2010 I200 Basic Incident Command System (1.0)
ESWF 2110 S211 Portable Pumps and Water Use (1.5)
ESWF 2150 S215 Fire Operations in the Wildland Urban Interface (2.0)
ESWF 2301 S230 Crew Boss Single Resource (2.0)
ESWF 2340 S234 Ignition Operations (2.0)
ESWF 2430 Wildland Firefighter Internship III (5.0)
ESWF 2600 S260 Interagency Incident Business Management (1.0)
ESWF 2700 S270 Basic Air Operations (1.0)
ESWF 2800 L280 Followership to Leadership (1.0)
ESWF 2900 S290 Intermediate Wildland Fire Behavior (2.0)

Elective Requirements: 29 Credits
Any Emergency Services or Advisor approved courses 29

Graduation Requirements:
1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Wildland Fire Management, A.A.S.
Careers
Students who complete this degree are prepared to gain employment or promotion in the wildland firefighting.

Related Careers
- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists

Aviation Fire Officer, Certificate of Proficiency
Careers
Aviation Fire Officer, Certificate of Completion Careers

Related Careers
- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists

Requirements
Our degree provides our students with the knowledge, skills, and abilities to assist them in obtaining a job in Emergency Services, or if already employed, to give them the knowledge, skills, and abilities to advance in their careers.

Total Program Credits: 32

Discipline Core Requirements: 32 Credits
Complete the following:

ESEC 1140 Emergency Medical Technician--Basic 9
ESFF 1000 Introduction to Emergency Services and Ability Testing 4
or ESFF 100A Introduction to Emergency Services (3.0)
and ESFF 100B Firefighter Physical Ability Testing (1.0)
ESFF 1120 Principles of Fire and Emergency Services Safety and Survival 3
ESFF 250A Firefighter Recruit Candidate Academy I 8
ESFF 250B Firefighter Recruit Candidate Academy II 8

Graduation Requirements:
1. Overall grade point average of 2.0 (C) or above, with completion of each Emergency Services class with a C- or higher.
2. Completion of a minimum of 32 credits.
3. Residency hours -- Minimum of 10 credits required through course attendance at UVU. 0.0
Emergency Services

Note: CERTIFICATION: Upon completion of courses for the Basic Recruit Certificate, students are eligible to apply for certification at the Firefighter I, Firefighter II, Hazardous Materials First Responder-Awareness and Hazardous Materials First Responder-Operations levels through the Utah Fire Science Certification System. Students are also eligible for certification at the Emergency Medical Technician-Basic level through the Utah Bureau of Emergency Medical Services.

Firefighter Recruit Candidate, Certificate of Completion

Careers

Students who complete this degree are prepared to gain employment in the fire service.

Related Careers

• Firefighters
• Fire Inspectors and Investigators
• Forest Fire Inspectors and Prevention Specialists

Paramedic, Certificate of Completion

Requirements

Our degree provides our students with the knowledge, skills and abilities to assist them in obtaining a job in Emergency Services, or if already employed, to give them the knowledge, skills and abilities to advance in their careers.

Total Program Credits: 31

| Discipline Core Requirements: | 31 Credits |
| Complete the following: | |
| ESEC 3110 Paramedic I | 5 |
| ESEC 3120 Paramedic I Lab | 3 |
| ESEC 3130 Paramedic II | 7 |
| ESEC 3140 Paramedic III | 4 |
| ESEC 4110 Paramedic IV | 6 |
| ESEC 4120 Paramedic Clinical Concepts | 6 |

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.) Upon completion, students are eligible to apply for certification as an Emergency Medical Technician/Paramedic through the Utah Bureau of Emergency Medical Services.
2. Completion of a minimum of 31 credits.
3. Overall GPA of 2.0 or higher.
4. Residency hours -- Minimum of 10 credits required through course attendance at UVU.

Paramedic, Certificate of Completion

Careers

Students who complete this degree are prepared to gain employment in the fire service or emergency field.

Related Careers

• Health Specialties Teachers, Postsecondary
• Emergency Medical Technicians and Paramedics

Emergency Services Administration - Emergency Care Emphasis, B.S.

Requirements

A degree in emergency services prepares practicing and future emergency service professionals through a program that balances technical skills, critical and ethical thinking, leadership, and effective communication. The department's programs address multiple emergency service educational needs, from professional certifications to degrees.

Total Program Credits: 126

| General Education Requirements: | 35 Credits |
| ENGL 1010 Introduction to Writing | 3 |
| ENGL 2010 Intermediate Writing--Humanities/Social Sciences | 3 |
| or ENGL 2020 Intermediate Writing--Science and Technology | (3.0) |
| Complete one of the following: | 3 |
| MATH 1030 Quantitative Reasoning | (3.0) |
| MATH 1040 Introduction to Statistics | (3.0) |
| or MATH 1050 College Algebra | (4.0) |
| Complete one of the following: | 3 |
| HIST 1700 American Civilization | (3.0) |
| HIST 2700 US History to 1877 | (3.0) |
| and HIST 2710 US History since 1877 | (3.0) |
| HIST 1740 US Economic History | (3.0) |
| POLS 1000 American Heritage | (3.0) |
| POLS 1100 American National Government | (3.0) |
| Complete the following: | |
| PHIL 2050 Ethics and Values | 3 |
| HLTH 1100 Personal Health and Wellness | (2.0) |
| or PES 1097 Fitness for Life | 2 |
| Distribution Courses: | |
| Biology | 3 |
| Physical Science | 3 |
| Additional Biology or Physical Science | 3 |
| Humanities Distribution | 3 |
| Fine Arts Distribution | 3 |
| Social/Behavioral Science | 3 |
| Discipline Core Requirements: | 28 Credits |
| ESFF 1000 Introduction to Emergency Services and Ability Testing | 4 |
| or Sufficient Emergency Services work experience | |
| or ESFF 100A Introduction to Emergency Services | (3.0) |
| and ESFF 100B Firefighter Physical Ability Testing | (1.0) |
| ESEC 1140 Emergency Medical Technician--Basic | 9 |
| ESMG 310G Introduction to Homeland Security | 3 |
| ESMG 3200 Health and Safety Program Management | 3 |
| ESMG 3250 Managing Emergency Medical Services | 3 |
Emergency Services Administration - Emergency Management Emphasis, B.S.

**Requirements**
A degree in emergency services prepares practicing and future emergency service professionals through a program that balances technical skills, critical and ethical thinking, leadership, and effective communication. The department's programs address multiple emergency service educational needs, from professional certifications to degrees.

**Total Program Credits: 120**

**General Education Requirements:**
- **35 Credits**
  - **ENGL 1010** Introduction to Writing (3.0)
  - **ENGL 2010** Intermediate Writing--Humanities/Social Sciences (3.0)
  - **ENGL 2020** Intermediate Writing--Science and Technology (3.0)

**or**
- **ENGL 1010** Introduction to Writing (3.0)
  - **ENGL 2010** Intermediate Writing--Humanities/Social Sciences (3.0)

**Complete one of the following:**
- **MATH 1030** Quantitative Reasoning (3.0)
- **MATH 1040** Introduction to Statistics (3.0)
- **MATH 1050** College Algebra (4.0)

**Complete one of the following:**
- **HIST 1700** American Civilization (3.0)
- **HIST 2700** US History to 1877 (3.0)

**and**
- **HIST 2710** US History since 1877 (3.0)
- **HIST 1740** US Economic History (3.0)
- **POLS 1000** American Heritage (3.0)
- **POLS 1100** American National Government (3.0)

**Complete the following:**
- **PHIL 2050** Ethics and Values (3.0)
- **HLTH 1100** Personal Health and Wellness (2.0)
- **PES 1097** Fitness for Life (2.0)

**Distribution Courses:**
- **Biology** (3.0)
- **Physical Science** (3.0)
- **Additional Biology or Physical Science** (3.0)
- **Humanities Distribution** (3.0)
- **Fine Arts Distribution** (3.0)
- **Social/Behavioral Science** (3.0)

**Discipline Core Requirements:**
- **28 Credits**
  - **ESFF 1000** Introduction to Emergency Services and Ability Testing (4.0)
  - **ESFF 100A** Introduction to Emergency Services (3.0)

**or**
- **ESNC 1000** Introduction to Emergency Services (3.0)

**and**
- **ESNC 100B** Firefighter Physical Ability Testing (1.0)
- **ESEC 1140** Emergency Medical Technician--Basic (9.0)
- **ESMG 310G** Introduction to Homeland Security (3.0)
- **ESMG 3200** Health and Safety Program Management (3.0)
- **ESMG 3250** Managing Emergency Medical Services (3.0)
ESMG 4500 Customer Service and Marketing for the Emergency Services  3
ESMG 4650 Emergency Services Capstone  3

Elective Requirement:  32 Credits

Any Emergency Services or related advisor approved courses.  15
Any courses 1000 or higher  17

Emphasis Requirements:  25 Credits

Complete 25 credits from the following:  25

ESMG 3150 Public Program Administration (3.0)
ESMG 3300 Master Planning for Public Emergency Services (3.0)
ESMG 3350 Analytical Research Approaches to Public Emergency Services (3.0)
ESMG 3600 Psychology of Emergency Services (3.0)
ESMG 4150 Humanitarian Services and Disaster Relief (3.0)
ESMG 4200 Disaster Response and the Public (3.0)
ESMG 4400 Legal Considerations for the Emergency Services (3.0)
ESMG 445G Human Factors in Emergency Management (3.0)
ESMG 4550 Principles of Disaster and Emergency Management (3.0)
ESMG 4600 Public Administration and Emergency Management (3.0)
ESMG 489R Special Topics in Emergency Management (1.0)  1

Graduation Requirements:
1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above, with completion of each Emergency Services class with a "C" or higher.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Footnote
1-May be repeated for a maximum of 6 credits

Emergency Services Administration - Emergency Management Emphasis, B.S.

Careers:

Careers:
Our Bachelor of Science degree will afford our graduates a wide range of employment opportunities in the fire service, medical field, law enforcement, military, community, and corporate entities.

Related Careers
- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
Mission Statement

The mission of the UVU Engineering Graphics and Design Technology program (EGDT) is to prepare future professionals to engage in diverse design, modeling, and drafting disciplines. The program cultivates an elevated commitment to work ethic, quality, productivity, and service. Successful graduates will be dynamic self-starters and lifelong learners who are serious about work and accept the stewardship of designing the future.

Engineering Graphics & Design Technology

- Administrative Support: Christine Bigelow
- Office: CS 704
- Telephone: 801-863-8363

- Advisor: Andrew Gifford
- Office: CS 635
- Telephone: 801-863-8350

Advisory Committees:

Architectural
Kevin Madson, KMA Architects; Curtis Miner, Curtis Miner Architecture; Tyson Munford, Rooftop Anchors Inc.; Alan Shurtliff, Pontis Architectural Group.

Civil
Glen Barton, Foster Wheeler USA Corporation; Matt Brown, MW Brown Engineering; Dave Roberts, FLSmith; Brant Tuttle, Northern Engineering; Alan York, Provo City.

Electrical
Kevin Armatage L-3 Communications; Roger Clement, South Valley Water Reclamation Facility; Keith Hegerhorst, Hegerhorst Power Engineering.

Mechanical
Doug Nordin, GE Wind; Sean Peterson, Little Giant Ladders.

Structural
Pam Foote, Steel Encounters; Steve Holdaway, Tectonix Steel; Rob Schoen, Axis Steel Detailing. Other: Gary Roberts, Wasatch High School; Ginger Timmerman, Prosoft.

Career Opportunities

The Engineering Graphics and Design Technology program prepares students for design, 3D modeling, surveying, and drafting careers in mechanical, architectural, structural, civil, and electrical/electronic fields. Jobs are available with architects, cities, counties, states, the federal government, engineering and surveying companies, mines, and research and development companies. They may be called upon to produce drawings related to their work.

Surveyors develop good human relations skills and professional work habits to be able to work closely with the public.

Programs

Students in the Engineering Graphics and Design Technology program may earn an Associate in Applied Science Degree, an Associate in Science Degree with a drafting pre-major or a Bachelor of Science in Technology Management Degree in Drafting Technology.

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

Due to the technical nature of the material in the following courses, additional reading and math instruction may be required. More information will be given during advisement.

Cooperative Education

Cooperative Education is highly recommended as an elective in these majors. Two credits may be applied towards graduation.

Geomatics

- Program Coordinator: Danial L. Perry
- Office: CS 704c
- Telephone: 801-863-8525

- Advisor: Andrew Gifford
- Office: CS 635
- Telephone: 801-863-6597

Advisory Board:

Board Chairman Kevin Bishop, PLS - Oakhill's Surveying, Owner; Michael Nadeau, PLS - Meridian Engineering, Survey Manager; Dan Webb, PLS - Cadastral Chief, State of Utah, Bureau of Land Management; Von Hill, MBA, PLS - Hill and Associates, Inc., Owner; Scott Bishop, PLS - Utah Division of Professional Licensing (DOPL) and -Horrockes Engineers, Survey Manager; Sean Fernandez, PLS - Automated Geographic Reference Center (AGRC) State Cadastral Surveyor, Governor's Office; Brad Mortensen, PE, PLS - Utah Department of Transportation (UDOT) Survey Manager; Ross Workman, PLS - Bureau of Land Management, Senior Cadastral Surveyor; Walt Cunningham, PLS - Salt Lake Community College, Geomatics Program Director; Dennis Carlisle, PLS - Focus Engineering and Surveying, Senior Land Surveyor; Rob Mullen, PLS - Region Engineering and Surveying, Owner; John Stahl, PLS - Cornerstone Surveying, Owner; Harold Mitchell, PLS, PE, Esq.; Kent Barney, PLS.
Engineering Graphics and Design Technology

-- Northern Engineering, PLS Survey Manager; Ken Hamblin, PLS --Chairman of the Utah Council of Land Surveyors and Ken Hamblin Land Surveying, Owner.

Career Opportunities

The Geomatics program prepares students to enter the workplace in a variety of disciplines. Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite and laser scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), geography and some elements of civil engineering. Geomatics not only encompasses traditional land surveying but today also includes geography and other disciplines which integrate acquisition, modeling, analysis, and management of geo-spatial reference data. Some students will have opportunities to work for organizations such as the National Geodetic Survey (NGS), National Oceanic and Atmospheric Administration (NOAA), Bureau of Land Management (BLM), National Aeronautics and Space Administration (NASA), national, state, county, and city governmental agencies, universities and colleges, and private surveying and engineering firms.

Job Description

Some of the positions held by Geomatics graduates are: Land Surveyors, Survey Technicians, Cartographers, Photogrammetrists, Geographic Information Systems (GIS) specialists, GIS professionals, Drafters, Civil engineering technicians, Environmental specialists, and Urban/Regional planners. Surveyors do some of their work in offices but much of their work takes place out-of-doors where they perform surveys of public lands, private properties, roads and highways, pipelines, large buildings, and subdivisions, as well as all types of geospatial measurement projects. The licensed surveyor today is required to know an increasing volume of real property and boundary laws as well as possess an exceptional knowledge of sophisticated geo-spatial measurement instrumentation like GPS, Robotic Stations, 3D Laser Scanners, and UAV’s. Licensed Surveyors are required to make various mathematical calculations using algebra, trigonometry, calculus, and solid/distance geometry. They develop technical maps and other deliverables of 3D data for use by professionals in related disciplines as well as the general public.

Programs

Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite imaging and laser scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), and some parts of geography and civil engineering.

Geomatics is a discipline which integrates acquisition, modeling, analysis, and management of geo-spatial reference data. Based on the scientific framework of geodesy, it uses terrestrial, marine, airborne, satellite-based sensors, and measurement systems and technologies to acquire spatial and other data. The Land Surveying component of Geomatics includes investigation, analysis, and application of boundary/property laws and legal principles pertaining to specific public and private properties and is a regulated profession wherein a license to practice land surveying is issued by each state in an effort to protect the public and private interests in property boundaries.

Students in the Geomatics program may earn an Associate in Science in Geomatics which will help them be immediately employable as entry level surveyor GIS technician. Students may also earn a Bachelor of Science in Geomatics which will prepare them to successfully pass the national Fundamentals of Surveying (FS) exam which is a significant step towards surveying licensure. The bachelor degree program has been developed around four core disciplines which build on an in-depth foundation of knowledge needed for the professional practice of surveying and GIS. Geomatics program goals are to secure ABET/ASAC accreditation by fall semester 2017 and to continue to encourage student interest in obtaining graduate degrees in the field of Geomatics from other nationally ranked institutions. The program is operating under an annual cohort system starting in the Fall semester of each year, so matriculation is required to ensure that each perspective student completes all required course prerequisites prior to entrance into a cohort.

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

Cooperative Education

Cooperative education is highly recommended as an elective(s) in this major. As much as six (6) credit hours of electives are allowed in the bachelor degree program as internship credits.

College of Technology & Computing

- Dean: Michael Savoie
- Office: CS 720
- Telephone: 801-863-8321

DEPARTMENT CHAIR
PRICE, Robert D. Associate Professor

FACULTY
BEZZANT, Howard Associate Professor
KENDALL, Rodney G. Professor
MANNING, David Professor
PERRY, Daniel L. Associate Professor
PRICE, Robert D. Associate Professor
SELVARAJAN, Sowmya Assistant Professor
SMITH, Sidney D. Associate Professor
TAYLOR, Darin Professor

Course Descriptions

Engineering Graphics and Design Technology.................................................. 612
Geographic Information Systems................................................................. 648
Land Surveying.............................................................................................. 730

Degrees & Programs

Drafting Technology, A.A.S.

Requirements

The Associate in Applied Science Degree is a "job ready" degree and applies the technical and functional elements of several Drafting and Design fields. Students will take courses in the fundamentals of drafting and design, industry standard two-dimensional and three-dimensional software, Architectural Design, Civil Design and Surveying, Electrical Design, Mechanical Design, and Structural Steel Detailing and Design. Students will take other supporting classes and advanced courses in a minimum of two specialty areas of their choosing.

Total Program Credits: 67

General Education Requirements: 19 Credits

ENGLISH
ENGL 1010 Introduction to Writing (3.0)
or MKTG 2200 Written Business Communication (3.0)

MATHMATICS
EGDT 1600 Technical Math--Algebra (3.0)
or MATH 1050 College Algebra (4.0)
EGDT 1610 Technical Math--Geometry/Trig (3.0)
or MATH 1060 Trigonometry (3.0)

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
PHIL 2050 Ethics and Values (3.0)
Any approved Humanities, Fine Arts, or Foreign Language Distribution Course

SOCIAL AND BEHAVIORAL SCIENCE
MGMT 3000 Organizational Behavior (3.0)
Graduation Requirements:

1. Completion of a minimum of 9 credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements, including a portfolio and exit interview.

Drafting Technology, A.A.S.

Careers

The Engineering Graphics and Design Technology program prepares students for careers in mechanical, architectural, structural, civil, and electrical/electronic fields. Jobs are available with architects, cities, counties, states, the federal government, engineering and surveying companies, mines, research and development companies, and the mechanical, structural steel, architectural development, electronics, construction, and fire protection industries. In addition, because of the broad nature of the program, graduates are prepared to succeed in most technical fields. For example, they can work as manufacturing, industrial engineering, and construction technicians as well as in functional areas of purchasing, estimating, bidding, plant management, quality control, expediting, and sales.

Related Careers

- Architectural and Civil Drafters
- Electrical and Electronics Drafters
- Mechanical Drafters
- Drafters, All Other

Drafting Technology, A.S.

Requirements

The Associate in Science Degree is a transferable degree and applies the technical and functional elements of several Drafting and Design fields without taking the advanced course work required in the Associate in Applied Science Degree. Students will take fundamental courses in drafting and design, industry standard two-dimensional and three-dimensional software, Architectural Design, Civil Design and Surveying, Electrical Design, Mechanical Design, and Structural Steel Detailing and Design.

Total Program Credits: 61

Graduation Requirements:

1. Completion of a minimum of 67 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements, including a portfolio and exit interview.

Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGDT 1010</td>
<td>Electrical-Electronic Drafting</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1020</td>
<td>3D Architectural Modeling</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1040</td>
<td>Computer Aided Drafting—AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1070</td>
<td>3 Dimensional Modeling—Inventor</td>
<td>3</td>
</tr>
<tr>
<td>or EGDT 1071</td>
<td>3 Dimensional Modeling—Solidworks (3.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 1100</td>
<td>Architectural Drafting</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1200</td>
<td>Mechanical Drafting</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1300</td>
<td>Structural Drafting</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1400</td>
<td>Surveying</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 2020</td>
<td>Descriptive Geometry</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 2040</td>
<td>Piping Drafting</td>
<td>2</td>
</tr>
<tr>
<td>EGDT 2050</td>
<td>Plate Layout</td>
<td>2</td>
</tr>
<tr>
<td>EGDT 2600</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 2610</td>
<td>Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 2850</td>
<td>Cooperative Correlated Instruction/Orientation</td>
<td>0.5</td>
</tr>
<tr>
<td>EGDT 2860</td>
<td>Cooperative Correlated Instruction/SkillsUSA</td>
<td>0.5</td>
</tr>
<tr>
<td>EGDT 2870</td>
<td>Portfolio and Career Preparation</td>
<td>1</td>
</tr>
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</table>

Elective Requirements: 9 Credits

Choose a minimum of three courses from the following list for a minimum of 9 credits:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGDT 1060</td>
<td>MicroStation (2.0)</td>
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</tr>
<tr>
<td>EGDT 1080</td>
<td>AutoLisp (2.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2010</td>
<td>Advanced Electrical–CAD (2.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2100</td>
<td>Advanced Architectural (3.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2200</td>
<td>Advanced Mechanical (3.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2300</td>
<td>Advanced Structural–CAD (3.0)</td>
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<tr>
<td>EGDT 2310</td>
<td>Structural Steel Modeling (3.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2400</td>
<td>Surveying Applications (3.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2500</td>
<td>3 Dimensional Modeling–Civil 3D (3.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2710</td>
<td>Special Problems–Mechanical (2.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2720</td>
<td>Special Problems–Surveying (2.0)</td>
<td></td>
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<tr>
<td>EGDT 2730</td>
<td>Special Problems–Civil Drafting (2.0)</td>
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</tr>
<tr>
<td>EGDT 2740</td>
<td>Special Problems–Architectural (2.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2750</td>
<td>Special Problems–Architectural Rendering (2.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2760</td>
<td>Special Problems–Structural (2.0)</td>
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<tr>
<td>EGDT 2780</td>
<td>Special Problems–Electrical (2.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 281R</td>
<td>Cooperative Work Experience (1.0)</td>
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</tr>
<tr>
<td>EGDT 3500</td>
<td>Advanced Civil Drafting and Design (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Engineering Graphics and Design Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing—Science and Technology (3.0)</td>
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<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics</td>
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<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following:
Engineering Graphics and Design Technology

PHIL 2050 Ethics and Values 3
HLTH 1100 Personal Health and Wellness 2
or PES 1097 Fitness for Life (2.0)

Distribution Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Biology</td>
<td>3</td>
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<tr>
<td>Physical Science</td>
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<tr>
<td>Additional Biology or Physical Science</td>
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<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
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<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
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</table>

Discipline Core Requirements: 21 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EGD 1040</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2010</td>
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<td>EGD 2040</td>
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<td>EGD 2050</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2100</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2200</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2300</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2400</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2500</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2600</td>
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<td>EGD 2610</td>
<td>3</td>
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<td>EGD 2710</td>
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<tr>
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<tr>
<td>EGD 2780</td>
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<tr>
<td>EGD 281R</td>
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<tr>
<td>EGD 3500</td>
<td>3</td>
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</table>

Elective Requirements: 5 Credits

Choose two courses from the following for a minimum of 5 credits:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>EGD 1010</td>
<td>3</td>
</tr>
<tr>
<td>EGD 1060</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2020</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2040</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2050</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2100</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2200</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2300</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2400</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2500</td>
<td>3</td>
</tr>
<tr>
<td>EGD 2600</td>
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<tr>
<td>EGD 2710</td>
<td>3</td>
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<td>EGD 2720</td>
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<tr>
<td>EGD 2730</td>
<td>3</td>
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<tr>
<td>EGD 2740</td>
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<td>3</td>
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<tr>
<td>EGD 2780</td>
<td>3</td>
</tr>
<tr>
<td>EGD 281R</td>
<td>3</td>
</tr>
<tr>
<td>EGD 3500</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.

2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Drafting Technology, A.S.

Careers

The Engineering Graphics and Design Technology program prepares students for careers in design, 3D modeling, surveying, and drafting careers in mechanical, architectural, structural, civil, and electrical/electronic fields. Jobs are available with architects, cities, counties, states, the federal government, engineering and surveying companies, mines, research and development companies, and the mechanical, structural steel, architectural development, electronics, construction, and fire protection industries.

In addition, because of the broad nature of the program, graduates are prepared to succeed in most technical fields. For example, they can work as manufacturing, industrial engineering, and construction technicians as well as in functional areas of purchasing, estimating, bidding,plant management, quality control, expediting, and sales.

Related Careers

- Architectural and Civil Drafters
- Electrical and Electronics Drafters
- Mechanical Drafters
- Drafters, All Other

Geomatics, A.S.

Requirements

Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite imaging and laser scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), and some parts of geography and civil engineering.

Geomatics is a discipline which integrates acquisition, modeling, analysis, and management of geo-spatial reference data. Based on the scientific framework of geodesy, it uses terrestrial, marine, airborne, satellite-based sensors, and measurement systems and technologies to acquire spatial and other data. The Land Surveying component of Geomatics includes investigation, analysis, and application of boundary/property laws and legal principles pertaining to specific public and private properties and is a regulated profession wherein a license to practice land surveying is issued by each state in an effort to protect the public and private interests in property boundaries.

Students in the Geomatics program may earn an Associate in Science in Geomatics which will help them be immediately employable as entry level surveyor GIS technician. Students may also earn a Bachelor of Science in Geomatics which will prepare them to successfully pass the national Fundamentals of Surveying (FS) exam which is a significant step towards surveying licensure. The bachelor degree program has been developed around four core disciplines which build on an in-depth foundation of knowledge needed for the professional practice of surveying and GIS. Geomatics program goals are to secure ABET/ASAC accreditation by Fall Semester 2017 and to continue to encourage student interest in obtaining graduate degrees in the field of Geomatics from other nationally ranked institutions. The program is operating under an annual cohort system starting in the fall semester of each year, so matriculation is required to ensure that each perspective student completes all required course prerequisites prior to entrance into a cohort.

Total Program Credits: 60

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements:</td>
<td>36</td>
</tr>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>Complete the following:</td>
<td>4</td>
</tr>
</tbody>
</table>
Engineering Graphics and Design Technology

Complete one of the following:

- MATH 1100 Introduction to Calculus (4.0)

Complete the following:

- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values (3.0)
- HLTH 1100 Personal Health and Wellness (2.0)

Distribution Courses:

- 3 Biology
- 3 Additional Biology or Physical Science
- 3 Humanities
- 3 Fine Arts
- 3 Social/Behavioral

Discipline Core Requirements:

- 17 Credits

Business Computer Proficiency Exam *

- MATH 1060 Trigonometry (3.0)
- EGDT 1040 Computer Aided Drafting—AutoCAD (3.0)
- EGDT 1100 Architectural Drafting (3.0)
- EGDT 1720 Architectural Rendering (3.0)
- EGDT 2100 Advanced Architectural (3.0)

Elective Requirements:

- 7 Credits

Choose 7 credits from the following or any other courses approved by department

- SURV 2030 Geodesy (3.0)
- SURV 2210 Photogrammetry (3.0)
- SURV 2220 Remote Sensing (3.0)
- SURV 2310 Surveying US Public Lands (3.0)
- SURV 2320 Property Descriptions (2.0)
- SURV 3030 Land Development Planning, Platting, and Mapping (3.0)
- SURV 3010 Measurement Analysis and Adjustments (4.0)
- SURV 3220 Control Surveys (3.0)
- SURV 3230 Construction and Route Surveys (3.0)
- GIS 3620 Advanced GIS for Geomatics (3.0)
- ENGL 2310 Technical Communication (3.0)
- MATH 2040 Principles of Statistics (4.0)
- EGDT 2500 3 Dimensional Modeling—Civil 3D (3.0)
- EGDT 3500 Advanced Civil Drafting and Design (3.0)

Graduation Requirements:

1. Completion of a minimum of 60 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Footnote

* Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

Geomatics, A.S.

Careers:

The Geomatics program prepares students to enter the workplace in a variety of disciplines. Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite imaging and laser/LIDAR scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), geography and some elements of civil engineering. Geomatics not only encompasses traditional land surveying but today also includes geography and other disciplines which integrate acquisition, modeling, analysis, and management of geo-spatial reference data. Some students will have opportunities to work for organizations such as the National Geodetic Survey (NGS), National Oceanic and Atmospheric Administration (NOAA), Bureau of Land Management (BLM), National Aeronautics and Space Administration (NASA), national, state, county, and city governmental agencies, universities and colleges, and private surveying and engineering firms.

Discipline Core Requirements:

- 17 Credits

Surveys

- 4 GIS 3600 Introduction to Geographic Information Systems

Elective Requirements:

- 7 Credits

Choose 7 credits from the following or any other courses approved by department

- SURV 2030 Geodesy (3.0)
- SURV 2210 Photogrammetry (3.0)
- SURV 2220 Remote Sensing (3.0)
- SURV 2310 Surveying US Public Lands (3.0)
- SURV 2320 Property Descriptions (2.0)
- SURV 3030 Land Development Planning, Platting, and Mapping (3.0)
- SURV 3010 Measurement Analysis and Adjustments (4.0)
- SURV 3220 Control Surveys (3.0)
- SURV 3230 Construction and Route Surveys (3.0)
- GIS 3620 Advanced GIS for Geomatics (3.0)
- ENGL 2310 Technical Communication (3.0)
- MATH 2040 Principles of Statistics (4.0)
- EGDT 2500 3 Dimensional Modeling—Civil 3D (3.0)
- EGDT 3500 Advanced Civil Drafting and Design (3.0)

Graduation Requirements:

1. Completion of a minimum of 17 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours—minimum of 5 credit hours through course attendance at UVU.
Architectural Design Technology, Certificate of Proficiency

Careers

A student with a Certificate of Proficiency in Architectural Design Technology will be prepared for an entry level job as an architectural drafter/designer.

Related Careers

• Architectural and Civil Drafters

Civil Design Technology, Certificate of Proficiency

Requirements

The Certificate of Proficiency in Civil Design Technology applies the technical and functional elements of civil design. Students will take courses in the fundamentals of drafting and design, basic surveying, civil drafting and design, two-dimensional and three-dimensional software packages, surveying applications, land development, and advanced civil design.

Total Program Credits: 16

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>16 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGDT 1000 Introduction to Engineering Drawing and Technical Design (2.0)</td>
<td>2</td>
</tr>
<tr>
<td>EGDT 1040 Computer Aided Drafting–AutoCAD (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1400 Surveying (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 2400 Surveying Applications (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 2500 3 Dimensional Modeling–Civil 3D (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 2730 Special Problems–Civil Drafting (2.0)</td>
<td>2</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 16 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours– minimum of 4 credit hours through course attendance at UVU.

Mechanical Design Technology, Certificate of Proficiency

Careers

A student with a Certificate of Proficiency in Mechanical Design Technology will be prepared for an entry level job as a mechanical drafter/designer.

Related Careers

• Mechanical Drafters

Structural Design Technology, Certificate of Proficiency

Requirements

The Certificate of Proficiency in Structural Design Technology applies the technical and functional elements of structural steel detailing. Students will take courses in the fundamentals of drafting and design, basic structural steel detailing, two-dimensional and three-dimensional software/Building Information Modeling (BIM) packages, and advanced structural design and detailing.

Total Program Credits: 17

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>17 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGDT 1000 Introduction to Engineering Drawing and Technical Design (2.0)</td>
<td>2</td>
</tr>
<tr>
<td>EGDT 1020 3D Architectural Modeling (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1040 Computer Aided Drafting–AutoCAD (3.0)</td>
<td>3</td>
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<tr>
<td>EGDT 1300 Structural Drafting (3.0)</td>
<td>3</td>
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<tr>
<td>EGDT 2300 Advanced Structural–CAD (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 2310 Structural Steel Modeling (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 17 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours– minimum of 5 credit hours through course attendance at UVU.
Geomatics, B.S.

Requirements

Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite imaging and laser scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), and some parts of geography and civil engineering.

Geomatics is a discipline which integrates acquisition, modeling, analysis, and management of geo-spatial reference data. Based on the scientific framework of geodesy, it uses terrestrial, marine, airborne, satellite-based sensors, and measurement systems and technologies to acquire spatial and other data. The Land Surveying component of Geomatics includes investigation, analysis, and application of boundary/property laws and legal principles pertaining to specific public and private properties and is a regulated profession wherein a license to practice land surveying is issued by each state in an effort to protect the public and private interests in property boundaries.

Students in the Geomatics program may earn an Associate in Science in Geomatics which will help them be immediately employable as an entry level surveyor GIS technician. Students may also earn a Bachelor of Science in Geomatics which will prepare them to successfully pass the national Fundamentals of Surveying (FS) exam which is a significant step towards surveying licensure. The bachelor degree program has been developed around four core disciplines which build on an in-depth foundation of knowledge needed for the professional practice of surveying and GIS. Geomatics program goals are to secure ABET/ASAC accreditation by Fall Semester 2017 and to continue to encourage student interest in obtaining graduate degrees in the field of Geomatics from other nationally ranked institutions. The program is operating under an annual cohort system starting in the fall semester of each year, so matriculation is required to ensure that each perspective student completes all required course prerequisites prior to entrance into a cohort.

Total Program Credits: 121

Matriculation Requirements:

1. Before being formally admitted into the BS Geomatics, students must matriculate into the Geomatics Cohort (the final 2 years of the program) by either completing an AS in Geomatics with a minimum grade of C or better, OR by completing matriculation requirements 2 and 3:

2. Complete the Business Computer Proficiency exam with 80% or higher OR complete IM 2010 (3.0 credit hours) with B- or higher

3. Complete the following courses with a C grade or better:
   - SURV 1020 Introduction to Geomatics (1.0)
   - EGDT 1040 Computer Aided Drafting–AutoCAD (3.0)
   - EGDT 1400 Surveying (3.0)
   - GIS 3600 Introduction to Geographic Information Systems (4.0)
   - MATH 1060 Trigonometry (3.0)
   - ENGL 2310 Technical Communication (3.0)
   - EGDT 2400 Surveying Applications (3.0)
   - GIS 3620 Advanced GIS for Geomatics (3.0)
   - MATH 2040 Principles of Statistics (4.0)

4. All Geomatics students must complete a Matriculation Application by the appointed deadline during the Spring semester prior to the Fall cohort to which the student desires to gain entry. Subsequently official approval must be obtained from the Program Coordinator prior to taking any further Geomatics courses.

General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing–Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing–Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1100</td>
<td>Introduction to Calculus</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>3</td>
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Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
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Distribution Courses:

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>MATH 1100 Introduction to Calculus</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>MATH 2040 Principles of Statistics</td>
<td>4</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>ENGL 2310 Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>EGDT 1040 Computer Aided Drafting–AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>EGDT 1400 Surveying</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 79 Credits

GEOMATICS DISCIPLINE CORE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Computer Proficiency Exam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 1060</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2040</td>
<td>Principles of Statistics</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 2310</td>
<td>Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1040</td>
<td>Computer Aided Drafting–AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1400</td>
<td>Surveying</td>
<td>3</td>
</tr>
</tbody>
</table>
### Engineering Graphics and Design Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURV 1020</td>
<td>Introduction to Geomatics</td>
<td>1</td>
</tr>
<tr>
<td>SURV 2010</td>
<td>Land and Survey History</td>
<td>3</td>
</tr>
<tr>
<td>GIS 3600</td>
<td>Introduction to Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>GIS 3620</td>
<td>Advanced GIS for Geomatics</td>
<td>3</td>
</tr>
<tr>
<td>SURV 2030</td>
<td>Geodesy</td>
<td>3</td>
</tr>
<tr>
<td>SURV 3030</td>
<td>Land Development Planning, Platting, and Mapping</td>
<td>3</td>
</tr>
</tbody>
</table>

#### MEASUREMENT CORE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGDT 2400</td>
<td>Surveying Applications</td>
<td>3</td>
</tr>
<tr>
<td>SURV 2220</td>
<td>Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>SURV 2210</td>
<td>Photogrammetry</td>
<td>3</td>
</tr>
<tr>
<td>SURV 3010</td>
<td>Measurement Analysis and Adjustments</td>
<td>4</td>
</tr>
<tr>
<td>SURV 3220</td>
<td>Control Surveys</td>
<td>3</td>
</tr>
<tr>
<td>SURV 3230</td>
<td>Construction and Route Surveys</td>
<td>3</td>
</tr>
</tbody>
</table>

#### LEGAL PRINCIPLES CORE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURV 2310</td>
<td>Surveying US Public Lands</td>
<td>3</td>
</tr>
<tr>
<td>SURV 2320</td>
<td>Property Descriptions</td>
<td>2</td>
</tr>
<tr>
<td>SURV 2360</td>
<td>Public Land Records</td>
<td>2</td>
</tr>
<tr>
<td>SURV 3340</td>
<td>Boundary Law</td>
<td>3</td>
</tr>
<tr>
<td>SURV 4340</td>
<td>Surveying Legal Principles</td>
<td>3</td>
</tr>
</tbody>
</table>

#### SURVEYING SERVICES CORE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEGL 3000</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>SURV 4500</td>
<td>The Surveying Practice</td>
<td>3</td>
</tr>
<tr>
<td>SURV 451R</td>
<td>Geomatics Lecture Series (.5) (Must be repeated for a total of 1 credit hour)</td>
<td>1</td>
</tr>
<tr>
<td>SURV 455G</td>
<td>Global Professional Ethics and Liabilities</td>
<td>3</td>
</tr>
<tr>
<td>SURV 492R</td>
<td>Geomatics Capstone (2.0) (Must be repeated for a total of 4.0 credit hours)</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective Requirements: 6 Credits

Complete 6 credits from the following list or any other courses regardless of prefix. Requires department approval.

### Graduation Requirements:

1. Completion of a minimum of 121 semester credits required for a BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.5 or above with a minimum of 3.0 GPA in all Geomatics courses. No grade lower than a "B" in core discipline courses including: (Geomatics, Measurement, Legal Principles, and Surveying Services Core)
3. Residency hours: Minimum of 30 credit hours of Geomatics courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

### Geomatics, B.S.

#### Careers

The Geomatics program prepares students to enter the workplace in a variety of disciplines. Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite imaging and laser/LIDAR scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), geography and some elements of...
Civil engineering. Geomatics not only encompasses traditional land surveying but
today also includes geography and other disciplines which integrate acquisition,
modeling, analysis, and management of geo-spatial reference data. Some students
will have opportunities to work for organizations such as the National Geodetic Survey
(NGS), National Oceanic and Atmospheric Administration (NOAA), Bureau of Land
Management (BLM), National Aeronautics and Space Administration (NASA), national,
state, county, and city governmental agencies, universities and colleges, and private
surveying and engineering firms.

**Related Careers**
- Cartographers and Photogrammetrists
- Surveyors
- Surveying and Mapping Technicians
Engineering Technology

Mission Statement
The Mission of the Engineering Technology Department is to prepare graduates to work in high demand, very technical, vastly diverse, automated industries that provide products and services to keep our state and national economy running. The Pre-Engineering graduates are prepared to go into upper level engineering fields at local universities in the state. The Mechatronics graduates are focused on designing the newest machines and automated systems needed by industry. The Electrical Automation and Robotics Technology graduates keep industry running by fixing, adapting, programming, and maintaining the automated machines and systems used in industry. The hands on/class room/lab learning approach used in the Engineering Technology Department is the best skill learning approach in higher education.

Electrical Automation & Robotics Technology

- Program Coordinator: Dave Adams
- Telephone: 801-863-6052
- Email: adamsda@uvu.edu
- Administrative Contact: Christine Peterson
- Telephone: 801-863-5571
- Email: christinep@uvu.edu
- Mail Stop: 151
- Advisor: Amy Ostler (EART and Mechatronics)
- Telephone: 801-836-8648
- Email: ostleram@uvu.edu
- Advisor: Andrew Gifford (Pre-Engineering)
- Telephone: 801-836-8648
- Email: AGifford@uvu.edu
- Advisor: Julie Harps (Pre-Engineering)
- Telephone: 801-836-8648
- Email: JHarps@uvu.edu

Advisory Committee:
Jeff Duncan, Anadarko Petroleum Corp; Michael Quayle, Autoliv; Khan Nasir, BD Medical; Troy Cooley, Chevon; Steve Heaps, Codale Electric Supply, Inc; Sherri Lund, Danny; Samuel Duncan, IM Flash Technologies; Janet Litley, JR Simplot; Jim Bird, Kennecott; Kent Angell, Nestle; Kent Brown, Pinnacle Solutions, Inc; Kris Franz, Rockwell Automation; Bob Bruce, Syscon Automation Group, Inc; Tyson Bunker, US Synthetic.

Programs
- Laptop Requirement
  Laptop will be required for all MECH courses. Please see Mechatronics advisor for details.

Pre-Engineering Science
- Program Coordinator:
  Masood Amin
- Telephone: 801-863-6052
- Email: aminma@uvu.edu
- Advisor:
  Andrew Gifford
- Telephone: 801-836-8648
- Email: agifford@uvu.edu

Programs
Students can choose from two degree plans. The Associate in Pre-Engineering degree is comprised of those math, science, and engineering courses normally taken by first and second year students in a four-year program, along with a small number of general education courses. If a student adds appropriate general education courses, an Associate in Science Degree with a pre-engineering pre-major may be obtained. This option normally takes longer, unless the student has advanced placement or concurrent enrollment from high school; however, it has the added benefit of possible waiving of general education requirements at the student’s follow-on school.

DEPARTMENT CHAIR
ADAMS, David M. Associate Professor

FACULTY
ADAMS, David M. Associate Professor
AMIN, Masood Associate Professor
BENSON, Robert Lecturer
DUNKLEY, Paul Lecturer
DUNLOP, David Lecturer
LUNDAHL, Diana Assistant Professor
PHILLIPS, David Assistant Professor
SEARLE, Scott Lecturer
TOLMAN, Sean Assistant Professor

Course Descriptions
Elec Automat and Robotic Tech................................................................. 597
Engineering.................................................................................................622
Mechatronics Technology.........................................................................678

Mechatronics Technology
- Program Coordinator:
  David Phillips
Degrees & Programs

Associate in Pre-Engineering - Biological and Chemical Engineering Emphasis, A.P.E.

Requirements

The pre-engineering program at UVU has been created for students who plan to complete the first two to three years of their engineering education at UVU and then transfer to a baccalaureate university to complete their engineering degree. With adequate planning, pre-engineering coursework completed at UVU will transfer to all of the Utah universities with baccalaureate engineering degrees. All students who declare pre-engineering as their major are automatically accepted into pre-engineering status. After completion of the pre-engineering program at UVU, the student applies for professional status at an institution of the student's choice.

Total Program Credits: 69

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>28 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following Natural and Physical Science courses:

<table>
<thead>
<tr>
<th>Biology</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1210 Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1215 Principles of Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 2210 Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2215 Physics for Scientists and Engineers I Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

Complete any combination of the following with no more than 1 course each from Humanities, Fine Arts, and Social/Behavioral Science:

<table>
<thead>
<tr>
<th>Humanities (from list)</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine Arts (from list)</td>
<td></td>
</tr>
<tr>
<td>Social/Behavioral Sciences (from list)</td>
<td></td>
</tr>
</tbody>
</table>

Complete any American Institutions course:

<table>
<thead>
<tr>
<th>POLS 1000 American Heritage (3.0)</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740 US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100 American National Government (3.0)</td>
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</tbody>
</table>

Discipline Core Requirements: 18 Credits

<table>
<thead>
<tr>
<th>MATH 1210 Calculus I</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1220 Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>ENGR 1030 Introduction to Electro-Mechanical Systems Design</td>
<td>3</td>
</tr>
<tr>
<td>or CS 1400 Fundamentals of Programming (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 2220 Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2225 Physics for Scientists and Engineers II Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

Emphasis Requirements: 5 Credits

| CHEM 1220 Principles of Chemistry II | 4 |
| CHEM 1225 Principles of Chemistry II Laboratory | 1 |

Emphasis Elective Requirements: 18 Credits

Students should carefully select electives from the following list, based on the engineering discipline (Biological or Chemical) they are interested in and the college or university they want to attend to finish their BS degree. See your advisor.

| BIOL 1610 College Biology I (4.0) |   |
| BIOL 1615 College Biology I Laboratory (1.0) |   |
| BIOL 1620 College Biology II (3.0) |   |
| BIOL 1625 College Biology II Laboratory (1.0) |   |
| BIOL 3400 Cell Biology (3.0) |   |
| CHEM 2310 Organic Chemistry I (4.0) |   |
| CHEM 2315 Organic Chemistry I Laboratory (1.0) |   |
| CHEM 2320 Organic Chemistry II (4.0) |   |
| CHEM 2325 Organic Chemistry II Laboratory (1.0) |   |
| ECE 1020 Computer Engineering Problem Solving with MATLAB and LabVIEW (1.0) |   |
| CS 1400 Fundamentals of Programming (3.0) |   |
| ENGR 1000 Introduction to Engineering (3.0) |   |
| ENGR 2450 Computational Methods for Engineering Analysis (3.0) |   |
| ENGR 2160 Introduction to Materials Science and Engineering (3.0) |   |
| ENGR 1020 Survey of Engineering (1.0) |   |
| ENGR 295R Special Topics (1.0) |   |
| ENGR 2300 Engineering Thermodynamics (3.0) |   |
| MATH 2210 Calculus III (3.0) |   |
| MATH 2270 Linear Algebra (3.0) |   |
| MATH 2280 Ordinary Differential Equations (3.0) |   |

Graduation Requirements:

1. Completion of a minimum of 69 semester credits.
2. Overall grade point average of 2.0 (C) or above. 2.5 or above in Math, Science, and Engineering
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements.

Associate in Pre-Engineering - Biological and Chemical Engineering Emphasis, A.P.E.

Careers

Careers:

Engineering is an exciting major in terms of professional career opportunities, job satisfaction, and compensation. Career options exist in many engineering fields including: Aerospace, Biological, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Irrigation, Manufacturing, Materials, Mechanical, and Systems.

Related Careers

• NO MATCH

Associate in Pre-Engineering - Civil and Mechanical Engineering Emphasis, A.P.E.

Requirements

The pre-engineering program at UVU has been created for students who plan to complete the first two to three years of their engineering education at UVU and then transfer to a baccalaureate university to complete their engineering degree. With adequate planning, pre-engineering coursework completed at UVU will transfer to all of the Utah universities with baccalaureate engineering degrees. All students who declare pre-engineering as their major are automatically accepted into pre-engineering
Engineering Technology

status. After completion of the pre-engineering program at UVU, the student applies for professional status at an institution of the student's choice.

Total Program Credits: 69

General Education Requirements: 28 Credits
- ENGL 1010 Introduction to Writing 3
- ENGL 2020 Intermediate Writing—Science and Technology 3

Complete the following Natural and Physical Science courses:
- Biology 3
- CHEM 1210 Principles of Chemistry I 4
- CHEM 1215 Principles of Chemistry I Laboratory 1
- PHYS 2210 Physics for Scientists and Engineers I 4
- PHYS 2215 Physics for Scientists and Engineers I Lab 1

Complete any combination of the following with no more than 1 course each from Humanities, Fine Arts, and Social/Behavioral Science:
- Humanities (from list)
- Fine Arts (from list)
- Social/Behavioral Sciences (from list)

Complete any American Institutions course: 3
- POLS 1000 American Heritage (3.0)

and
- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1100 American National Government (3.0)

Discipline Core Requirements: 18 Credits
- MATH 1210 Calculus I 5
- MATH 1220 Calculus II 5
- ENGR 1030 Introduction to Electro-Mechanical Systems Design 3
- or CS 1400 Fundamentals of Programming (3.0)
- PHYS 2220 Physics for Scientists and Engineers II 4
- PHYS 2225 Physics for Scientists and Engineers II Lab 1

Emphasis Requirements: 9 Credits
- ENGR 2010 Engineering Statics 3
- ENGR 2030 Engineering Dynamics 3
- ENGR 2140 Mechanics of Materials

Emphasis Elective Requirements: 14 Credits

Students should carefully select electives from the following list, based on the engineering discipline (Civil or Mechanical) they are interested in and the college or university they want to attend to finish their BS degree. See your advisor.
- ECE 2210 Fundamentals of Electric Circuit Analysis (3.0)
- ECE 2215 Fundamentals of Electric Circuit Analysis Lab (1.0)
- ECE 1020 Computer Engineering Problem Solving with MATLAB and LabVIEW (1.0)
- ECE 2250 Circuit Theory (3.0)
- ECE 2255 Circuit Theory Lab (1.0)
- EGDT 1040 Computer Aided Drafting—AutoCAD (3.0)

EGDT 1071 3 Dimensional Modeling—Solidworks (3.0)
EGDT 1400 Surveying (3.0)
ENGR 1000 Introduction to Engineering (3.0)
ENGR 1020 Survey of Engineering (1.0)
ENGR 2160 Introduction to Materials Science and Engineering (3.0)
ENGR 2300 Engineering Thermodynamics (3.0)
ENGR 2450 Computational Methods for Engineering Analysis (3.0)
ENGR 295R Special Topics (Must be taken 3 times) (1.0)
MATH 2210 Calculus III (3.0)
MATH 2270 Linear Algebra (3.0)
MATH 2280 Ordinary Differential Equations (3.0)

Graduation Requirements:
1. Completion of a minimum of 69 semester credits.
2. Overall grade point average of 2.0 (C) or above. 2.5 or above in Math, Science, and Engineering.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Associate in Pre-Engineering - Civil and Mechanical Engineering Emphasis, A.P.E.

Careers
- Engineering is an exciting major in terms of professional career opportunities, job satisfaction, and compensation. Career options exist in many engineering fields including: Aerospace, Biological, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Irrigation, Manufacturing, Materials, Mechanical, and Systems.

Related Careers
- NO MATCH

Associate in Pre-Engineering - Computer and Electrical Engineering Emphasis, A.P.E.

Requirements
The pre-engineering program at UVU has been created for students who plan to complete the first two to three years of their engineering education at UVU and then transfer to a baccalaureate university to complete their engineering degree. With adequate planning, pre-engineering coursework completed at UVU will transfer to all of the Utah universities with baccalaureate engineering degrees. All students who declare pre-engineering as their major are automatically accepted into pre-engineering status. After completion of the pre-engineering program at UVU, the student applies for professional status at an institution of the student’s choice.

Total Program Credits: 69

General Education Requirements: 28 Credits
- ENGL 1010 Introduction to Writing 3
- ENGL 2020 Intermediate Writing—Science and Technology 3

Complete the following Natural and Physical Science courses:
- Biology 3
- CHEM 1210 Principles of Chemistry I 4
- CHEM 1215 Principles of Chemistry I Laboratory 1
- PHYS 2210 Physics for Scientists and Engineers I 4
- PHYS 2215 Physics for Scientists and Engineers I Lab 1

EGDT 1071 3 Dimensional Modeling—Solidworks (3.0)
EGDT 1400 Surveying (3.0)
ENGR 1000 Introduction to Engineering (3.0)
ENGR 1020 Survey of Engineering (1.0)
ENGR 2160 Introduction to Materials Science and Engineering (3.0)
ENGR 2300 Engineering Thermodynamics (3.0)
ENGR 2450 Computational Methods for Engineering Analysis (3.0)
ENGR 295R Special Topics (Must be taken 3 times) (1.0)
MATH 2210 Calculus III (3.0)
MATH 2270 Linear Algebra (3.0)
MATH 2280 Ordinary Differential Equations (3.0)
## Emphasis Elective Requirements:

Complete any combination of the following with no more than 1 course each from Humanities, Fine Arts, and Social/Behavioral Science:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities</td>
<td>from list</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>from list</td>
</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td>from list</td>
</tr>
</tbody>
</table>

Complete any American Institutions course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History Since 1877 (3.0)</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
</tr>
</tbody>
</table>

### Discipline Core Requirements:

Complete any combination of the following courses:

- **MATH 1210 Calculus I** (5)
- **MATH 1220 Calculus II** (5)
- **ENGR 1030 Introduction to Electro-Mechanical Systems Design** (3)
- **or CS 1400 Fundamentals of Programming (3.0)**
- **PHYS 2220 Physics for Scientists and Engineers II** (4)
- **PHYS 2225 Physics for Scientists and Engineers II Lab** (1)

**Emphasis Requirements:**

Total Emphasis Elective Requirements: **15 Credits**

Students should carefully select electives from the following list (or other advisor approved courses), based on the engineering discipline (Computer or Electrical) they are interested in and the college or university they want to attend to finish their BS degree. See your advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1410</td>
<td>Object-Oriented Programming (3.0)</td>
</tr>
<tr>
<td>CS 2300</td>
<td>Discrete Mathematical Structures I (3.0)</td>
</tr>
<tr>
<td>CS 2420</td>
<td>Introduction to Algorithms and Data Structures (3.0)</td>
</tr>
<tr>
<td>CS 2600</td>
<td>Computer Networks I (3.0)</td>
</tr>
<tr>
<td>CS 2810</td>
<td>Computer Organization and Architecture (3.0)</td>
</tr>
<tr>
<td>ECE 1020</td>
<td>Computer Engineering Problem Solving with MATLAB and LabVIEW (1.0)</td>
</tr>
<tr>
<td>ECE 3740</td>
<td>Digital Design II (3.0)</td>
</tr>
<tr>
<td>ENGR 1000</td>
<td>Introduction to Engineering (3.0)</td>
</tr>
<tr>
<td>ENGR 2450</td>
<td>Computational Methods for Engineering Analysis (3.0)</td>
</tr>
<tr>
<td>ENGR 1020</td>
<td>Survey of Engineering (1.0)</td>
</tr>
<tr>
<td>ENGR 295R</td>
<td>Special Topics (1.0)</td>
</tr>
<tr>
<td>MATH 2210</td>
<td>Calculus III (3.0)</td>
</tr>
<tr>
<td>MATH 2270</td>
<td>Linear Algebra (3.0)</td>
</tr>
<tr>
<td>MATH 2280</td>
<td>Ordinary Differential Equations (3.0)</td>
</tr>
<tr>
<td>ECE 3760</td>
<td>Electronic Systems (3.0)</td>
</tr>
<tr>
<td>ECE 3785</td>
<td>Electronic Systems Lab (1.0)</td>
</tr>
<tr>
<td>ECE 3730</td>
<td>Embedded Systems I (3.0)</td>
</tr>
</tbody>
</table>

### Graduation Requirements:

1. Completion of a minimum of 69 semester credits.
2. Overall grade point average of 2.0 (C) or above. 2.5 or above in Math, Science, and Engineering.
3. Residency hours – minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

### Associate in Pre-Engineering - Computer and Electrical Engineering Emphasis, A.P.E.

#### Careers

**Careers:** Engineering is an exciting major in terms of professional career opportunities, job satisfaction, and compensation. Career options exist in many engineering fields including: Aerospace, Biological, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Irrigation, Manufacturing, Materials, Mechanical, and Systems.

#### Related Careers

- NO MATCH

### Electrical Automation and Robotics Technology, A.A.S.

#### Requirements

The EART program prepares Electrical Automation Technicians to troubleshoot, wire, repair, adapt, maintain, program (PLC’s & PAC’s), and control large automated electrical systems found in Industrial and Manufacturing Industries worldwide. The EART Technician will work with DC & AC motor controlled machines; Programmable Logic Controlled (PLC’s) and Programmable Automation Controlled (PAC’s) machines, systems, and devices; Hydraulic and pneumatic controlled machines; conveyor, fluid, and bulk storage systems; flex, soft start, and variable frequency drives; Robots; servo, and stepper motors. Because of their highly skilled hands on training the EART student is in high demand from many industries.

#### Total Program Credits: 66

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
</tr>
<tr>
<td>Any approved Humanities or Fine Art</td>
<td>3</td>
</tr>
<tr>
<td>Any approved Behavioral Science, Social, or Political Science Distribution Course</td>
<td>3</td>
</tr>
<tr>
<td>Any approved Physical Education, Health, Safety, or Environment Course</td>
<td>1</td>
</tr>
<tr>
<td>Any approved Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>EART 1050</td>
<td>Applied Electrical Math For EART Technicians</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EART 1130</td>
<td>Basic Electrical Theory for EART Technicians</td>
</tr>
<tr>
<td>EART 1180</td>
<td>Basic Electrical Lab for EART Technicians</td>
</tr>
<tr>
<td>EART 1280</td>
<td>DC and AC Machines for EART Technicians</td>
</tr>
<tr>
<td>EART 1285</td>
<td>DC and AC Machines Lab for EART Technicians</td>
</tr>
<tr>
<td>EART 2110</td>
<td>Industrial Electronics for EART Technicians I</td>
</tr>
<tr>
<td>EART 2150</td>
<td>Industrial Hydraulics and Pneumatics</td>
</tr>
<tr>
<td>EART 2160</td>
<td>Industrial Electronics for EART Technicians II</td>
</tr>
</tbody>
</table>
Engineering Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EART 2250</td>
<td>Industrial Programmable Logic Controllers--</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>PLC's</td>
<td></td>
</tr>
<tr>
<td>EART 2270</td>
<td>Programmable Logic Controllers 2</td>
<td>6</td>
</tr>
<tr>
<td>EGDT 1000</td>
<td>Introduction to Engineering Drawing and Technical</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Design</td>
<td></td>
</tr>
<tr>
<td>TECH 3000</td>
<td>Introduction to Technology Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 66 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements

Electrical Automation and Robotics Technology, A.A.S.

Careers

Careers:
The EART graduate can find employment locally, Statewide, Nationally, and Worldwide in the following highly automated industrial and manufacturing industries:

- Mines (coal, copper, potash, gold, and many others)
- Gas and Oil
- Pharmaceutical
- Medical Products
- Food and Beverage packaging and distribution
- Automotive
- Farming equipment
- Product Distribution companies
- Power Plants
- Commercial and Industrial Maintenance
- Automated Machine Manufactures
- Waste Management Industries
- Consulting Companies that provide "PLC & PAC Programming Services" and "Maintenance Services" to Industrial and Manufacturing Companies that need expert services.

Related Careers

- Electro-Mechanical Technicians

Electrical Automation and Robotics Technology, A.S.

Requirements

The EART program prepares Electrical Automation Technicians to troubleshoot, wire, repair, adapt, maintain, program (PLC's & PAC's), and control large automated electrical systems found in Industrial and Manufacturing Industries worldwide. The EART Technician will work with DC & AC motor controlled machines; Programmable Logic Controlled (PLC's) and Programmable Automation Controlled (PAC's) machines, systems, and devices; Hydraulic and pneumatic controlled machines; conveyor, fluid, and bulk storage systems; flex, soft start, and variable frequency drives; Robots; servo, and stepper motors. Because of their highly skilled hands on training the EART student is in high demand from many industries.

Total Program Credits: 63

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>PES 1097 Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 16 Credits

Choose from EART or related courses (1000 level or higher) 16

Elective Requirements: 12 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives (1000 level or higher)</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above (Department may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Electrical Automation and Robotics Technology, A.S.

Careers:
The EART graduate can find employment locally, Statewide, Nationally, and Worldwide in the following highly automated industrial and manufacturing industries:

- Mines (coal, copper, potash, gold, and many others)
- Gas and Oil
- Pharmaceutical
- Medical Products

Related Careers

- Electro-Mechanical Technicians
Food and Beverage packaging and distribution
Automotive
Farming equipment
Product Distribution companies
Power Plants
Commercial and Industrial Maintenance
Automated Machine Manufactures
Waste Management Industries
Consulting Companies that provide "PLC & PAC Programming Services" and "Maintenance Services" to Industrial and Manufacturing Companies that need expert services.

Related Careers
- Electro-Mechanical Technicians

Mechatronics Engineering Technology, A.A.S.

Requirements
The Mechatronics Engineering Technology Degree from Utah Valley University prepares graduates to work in the Utah manufacturing sector as an automation technician, design technician, PLC programmer, as well as many other aspects of implementing manufacturing systems. Students complete courses in PLC programming and architecture, materials, CAD, electrical and mechanical components, pneumatics, and motor control. Students will also take courses in technical writing, physics, chemistry, and business to round out their professional profile.

Total Program Credits: 63

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>23 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2310 Technical Communication (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1010 or MGMT 1010 Economics as a Social Science (3.0) or Introduction to Business (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2010 College Physics I (4.0)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2015 College Physics I Lab (1.0)</td>
<td>1</td>
</tr>
<tr>
<td>HLTH 1100 or PES 1097 Personal Health and Wellness (2.0) or Fitness for Life (2.0)</td>
<td>2</td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>40 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 1010 Introduction to Mechatronics (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGD1 1071 3 Dimensional Modeling--Solidworks (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MECH 1200 Electronics in Automation Design (5.0)</td>
<td>5</td>
</tr>
<tr>
<td>MECH 1250 Logic Fundamentals for Mechatronic Design (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MECH 2200 Semiconductors Used in Mechatronic Systems (4.0)</td>
<td>4</td>
</tr>
<tr>
<td>MECH 2300 Microcontroller Architecture and Programming (4.0)</td>
<td>4</td>
</tr>
<tr>
<td>MECH 2400 Mechanical Components (4.0)</td>
<td>4</td>
</tr>
<tr>
<td>MECH 2500 Introduction to PLCs in Mechatronic Design (4.0)</td>
<td>4</td>
</tr>
<tr>
<td>MECH 2510 Automation Systems Sensors (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

MECH 2550 Advanced PLC Programming and Applications (4.0) 4
MECH 2600 Introduction to Pneumatics (3.0) 3

Graduation Requirements:
1. Completion of 63 or more credit hours.
2. Overall grade point average of 2.0 (C) or above, with no core course below a C-.
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Mechatronics Engineering Technology, A.A.S.

Careers
Graduates from the Mechatronics Program will find gainful and rewarding employment in the Utah manufacturing sector. Manufacturing is an expanding sector of the Utah economy and graduates from the Mechatronics Program find employment in the automotive, medical, food, and sporting goods industries as Automation Technologists. With the blend of electronics and mechanics the graduates integrate into careers maintaining, upgrading, and designing new technically demanding automation systems that are the foundation of manufacturing production. Starting and long term salary potential is excellent for Mechatronics Technologists and the opportunity to work in a high demand occupation with a great salary potential makes the Mechatronics an excellent long term career choice. Graduates also have the option to continue their education in the Technology Management Program that will provide the opportunity to transition their careers into a supervision or management path after several years of technical employment.

Related Careers
- Architectural and Engineering Managers
- Engineers, All Other
- Engineering Teachers, Postsecondary

Pre-Engineering, A.S.

Requirements
The pre-engineering program at UVU has been created for students who plan to complete the first two to three years of their engineering education at UVU and then transfer to a baccalaureate university to complete their engineering degree. With adequate planning, pre-engineering coursework completed at UVU will transfer to all of the Utah universities with baccalaureate engineering degrees. All students who declare pre-engineering as their major are automatically accepted into pre-engineering status. After completion of the pre-engineering program at UVU, the student applies for professional status at an institution of the student’s choice.

Total Program Credits: 63

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>39 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1210 Calculus I</td>
<td>5</td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>American Civilization (3.0)</th>
<th>HIST 1700</th>
</tr>
</thead>
<tbody>
<tr>
<td>US History to 1877 (3.0)</td>
<td>HIST 2700</td>
</tr>
<tr>
<td>US Economic History (3.0)</td>
<td>HIST 1740</td>
</tr>
<tr>
<td>American Heritage (3.0)</td>
<td>POLS 1000</td>
</tr>
<tr>
<td>American National Government (3.0)</td>
<td>POLS 1100</td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Ethics and Values</th>
<th>PHIL 2050</th>
</tr>
</thead>
</table>
# Engineering Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td></td>
</tr>
</tbody>
</table>

## Distribution Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1210</td>
<td>Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2210</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
</tbody>
</table>

### Humanities

- 3 credits

### Fine Arts

- 3 credits

### Social/Behavioral Science

- 3 credits

### Biology

- 3 credits

## Discipline Core Requirements: 24 Credits

- ENGR 1030 Introduction to Electro-Mechanical Systems Design 3 credits
- or CS 1400 Fundamentals of Programming (3.0) 5 credits

### General Engineering Electives: 16 credits

- Complete one of the following sets of courses:
  - PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)
  - CHEM 1215 Principles of Chemistry I Laboratory (1.0)
  - ENGR 1000 Introduction to Engineering (3.0)
  - ENGR 2160 Introduction to Materials Science and Engineering (3.0)
  - CS 2810 Computer Organization and Architecture (3.0)
  - or CS 1410 Object-Oriented Programming (3.0)

### Biological and Chemical Electives:

- BIOL 1610 College Biology I (4.0)
- BIOL 1620 College Biology II (3.0)
- BIOL 1615 College Biology I Laboratory (1.0)
- BIOL 1625 College Biology II Laboratory (1.0)
- BIOL 3400 Cell Biology (3.0)
- MICR 2060 Microbiology for Health Professions (3.0)
- MICR 2065 Microbiology for Health Professions Laboratory (1.0)
- CHEM 1220 Principles of Chemistry II (4.0)
- CHEM 1225 Principles of Chemistry II Laboratory (1.0)
- CHEM 2315 Organic Chemistry I Laboratory (1.0)
- CHEM 2320 Organic Chemistry II (4.0)
- CHEM 2325 Organic Chemistry II Laboratory (1.0)

### CAD Electives:

- EGDT 1040 Computer Aided Drafting--AutoCAD (3.0)
- EGDT 1071 3 Dimensional Modeling--Solidworks (3.0)
- EGDT 1400 Surveying (3.0)
- EGDT 1200 Mechanical Drafting (3.0)

### Computer and Electrical Electives:

- CS 1400 Fundamentals of Programming (3.0)
- CS 1410 Object-Oriented Programming (3.0)
- CS 2300 Discrete Mathematical Structures I (3.0)
- CS 2420 Introduction to Algorithms and Data Structures (3.0)
- CS 2600 Computer Networks I (3.0)
- CS 2810 Computer Organization and Architecture (3.0)
- ECE 1020 Computer Engineering Problem Solving with MATLAB and LabVIEW (1.0)
- ECE 2210 Fundamentals of Electric Circuit Analysis (3.0)
ECE 2250 Circuit Theory (3.0)
ECE 2255 Circuit Theory Lab (1.0)
ECE 3740 Digital Design II (3.0)

Graduation Requirements:
1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. 2.5 or above in Math, Science, and Engineering courses.
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Pre-Engineering, A.S.

Careers

Engineering is an exciting major in terms of professional career opportunities, job satisfaction, and compensation. Career options exist in many engineering fields including: Aerospace, Biological, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Irrigation, Manufacturing, Materials, Mechanical, and Systems.

Related Careers

• NO MATCH

Mechatronics Engineering Technology, B.S.

Requirements

The Mechatronics Engineering Technology Degree from Utah Valley University prepares graduates to work in the Utah manufacturing sector as an automation technologist, design technician, PLC programmer, as well as many other aspects of implementing manufacturing systems. Students complete courses in PLC programming and architecture, materials, CAD, electrical and mechanical components, pneumatics, and motor control. Students will also take courses in technical writing, physics, chemistry, and business to round out their professional profile.

Total Program Credits: 121

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>38 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

| HIST 1700 American Civilization (3.0) |  |
| HIST 2700 US History to 1877 (3.0) |  |
| HIST 2710 US History since 1877 (3.0) |  |
| HIST 1740 US Economic History (3.0) |  |
| POLS 1000 American Heritage (3.0) |  |
| POLS 1100 American National Government (3.0) |  |

Distribution Courses:

| Biology | BIOL 1010 Recommended | 3 |
| PHYS 2010 College Physics I (4.0) | 4 |
| PHYS 2015 College Physics I Lab (1.0) | 1 |
| CHEM 1010 Introduction to Chemistry (fulfills additional Biology or Physical Science) | 3 |

Graduation Requirements:
1. Completion of 121 or more credit hours.
2. Overall grade point average of 2.0 (C) or above, with no core course below a C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU.
4. Successful completion of at least one Global/Intercultural course.

Mechatronics Engineering Technology, B.S.

Careers

Related Careers

• Architectural and Engineering Managers
• Engineers, All Other
• Engineering Teachers, Postsecondary
English Language Learning

Name: English Language Learning  
Location: LA 209  
Telephone: 801-863-5600  
Email: ElizabethN@uvu.edu  
Web Address: www.uvu.edu/ell  
Chair: Brian MacKay  
Email: Brian.Mackay@uvu.edu

The mission of the Department of English Language Learning at Utah Valley University is to provide a broad range of quality academic and social opportunities designed to help non-native English speaking students understand and successfully meet academic language expectations within an American university by demonstrating proficiency in reading, writing, grammar, and listening/speaking.

University College

University College serves a unique role and mission within Utah Valley University. Based on a national model, the name University College signifies opportunity for student success through curricular and co-curricular offerings, academic services, and innovative programs. University College welcomes students at present levels of achievement and challenges them with higher expectations. The programs and departments of Basic Composition, Student Leadership & Success Studies, Developmental Mathematics, English Language Learning, Academic Counseling Center, Academic Standards, First Year Experience & Student Retention, and Tutoring and Academic Skills Services (TASS) promote interdisciplinary partnerships as students transition into university academics.

- Dean: Forrest Williams  
  - Office: LA 210c  
  - Telephone:  
  - Email: forrest.williams@uvu.edu
- Administrative Support: Beth Winkler  
  - Office: LA 210  
  - Telephone:  
  - Email: beth.winkler@uvu.edu
- Associate Dean: Talitha Hudgins  
  - Office: LA 210e  
  - Telephone:  
  - Email: thudgins@uvu.edu
- Assistant Dean: Jessica Awtrey  
  - Office: LA 210d  
  - Telephone:  
  - Email: jessica.awtrey@uvu.edu

DEPARTMENT CHAIR
MACKAY, Brian R. Lecturer

FACULTY
- BAILEY, Brooke Lecturer
- COLLIER, Kory Lecturer
- CONDIE, Heidi Associate Professor
- ECKSTEIN, Grant Lecturer
- EYRAUD, Kevin Associate Professor
- LUKE, Chad Lecturer
- MACKAY, Brian R. Lecturer
- PETTERSON, James Professor

Course Descriptions

English as a Second Lang. ................................................................................... 629
English and Literature

Name: English & Literature
Location: LA 114
Telephone: 801-863-8790
Email: JamieH@uvu.edu
Web Address: uvu.edu/english
Chair: Grant Moss
Chair UVU Email: mossda@uvu.edu

Mission Statement

UVU’s English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others’ “different” voices, not just in the academy, but in any of the many situations in which language influences human activity.

English & Literature

- Assistant Chair: Nathan Gorelick
  Telephone: 801-863-6072
  Email:Nathan.Gorelick@uvu.edu

Advisors:

- Dawn Chase
  Telephone: 801-863-8574
  Email:DawnC@uvu.edu

- Samuel Banford
  Telephone: 801-863-6796
  Email:Samuel.Banford@uvu.edu

Administrative Support:

- Jamie Holdaway
  Office: LA 126
  Telephone: 801-863-8790

- Krista Peterson
  Office: LA 114
  Telephone: 801-863-8577

Course Descriptions

DEPARTMENT CHAIR
MOSS, David Grant Associate Professor

DIRECTOR
MCPHERSON, Kathryn R. Professor

.faculty
ALBRECHT-CRANE, Christa Professor
ANDERSON, Karin A. Professor
CARNEY, Rob Professor
CARTER, Angie Lecturer
COUSINS, Robert J. Professor
CRANE, Mark E. Associate Professor
DAVIDSON, J.D. Professor
FEDECZKO, Wioleta Assistant Professor
FULLMER, Stephen B. Associate Professor
GALE, Nathan A. Assistant Professor
GIBSON, Stephen D. Associate Professor
GODDARD, Todd Assistant Professor
GORELICK, Nathan Assistant Professor
GOSHERT, John Professor
HAMBLIN, Laura Professor
HATCH, W. Scott Lecturer
HENDERSON, Gae Lyn Associate Professor
KERR, Lydia Assistant Professor
LEE, Christopher Lecturer
MCPHERSON, Kathryn R. Professor
MCDONALD, Richard B. Professor
MORTENSEN, Lee Ann Professor
MOSS, David Grant Associate Professor
NICHOLS, Julie Assistant Professor
PEPPER, Mark Assistant Professor
PETERSEN, Boyd Lecturer
PETERSEN, Jerry Assistant Professor
SHELTON, Linda Senior Lecturer
SMITH, Thomas B. Associate Professor
SPROAT, Ethan Assistant Professor
TANNER, Paul A. Professor
THORNTON, Debra L. Professor
VOGEL, Charles A. Associate Professor
VOGEL, Sandra L. Associate Professor
WAGER, Jans Professor
WAHLQUIST, Jeniveve Associate Professor
WALLACE, Lorraine Associate Professor
WEBBER, Diana Lecturer
WELLINGTON, Janis Associate Professor
WHALEY, Brian Associate Professor

Course Descriptions

English............................................................................................................... 615
Degrees & Programs

English with an Emphasis in Technical Communication, A.A.

Requirements

UVU’s English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others’ “different” voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 60

| General Education Requirements: | 35 Credits |
| ENGL 1010 | Introduction to Writing |
| ENGL 2010 | Intermediate Writing--Humanities/Social Sciences |
| or ENGL 2020 | Intermediate Writing--Science and Technology (3.0) |

Complete one of the following:

| Complete one of the following: | 3 |
| MATH 1030 | Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors) |
| MATH 1040 | Introduction to Statistics (3.0) (recommended for Social Science majors) |
| MATH 1050 | College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors) |

Complete one of the following:

| Complete one of the following: | 3 |
| HIST 2700 | US History to 1877 (3.0) |
| and HIST 2710 | US History since 1877 (3.0) |
| HIST 1700 | American Civilization (3.0) |
| HIST 1740 | US Economic History (3.0) |
| POLS 1000 | American Heritage (3.0) |
| POLS 1100 | American National Government (3.0) |

Compete the following:

| PHIL 2050 | Ethics and Values |
| HLTH 1100 | Personal Health and Wellness (2.0) |
| or PES 1097 | Fitness for Life |

Distribution Courses:

| Distribution Courses: |  |
| Biology | 3 |
| Physical Science | 3 |
| Additional Biology or Physical Science | 3 |
| ENGL 2600 | Critical Introduction to Literature |
| Fine Arts Distribution | 3 |
| Social/Behavioral Science | 3 |

Discipline Core Requirements: 15 Credits

| ENGL 2030 | Writing for Social Change |
| ENGL 2050 | Editing |

Elective Requirements:

| Elective Requirements: | 10 Credits |
| One Foreign Language | 8 |
| Any course 1000 or higher | 2 |

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one foreign language.

English with an Emphasis in Technical Communication, A.A.

Careers

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors

English with an Emphasis in Technical Communication, A.S.

Requirements

UVU’s English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others’ “different” voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 60

| General Education Requirements: | 35 Credits |
| ENGL 1010 | Introduction to Writing |

or

| ENGL 225H | Creative Process and Imaginative Writing (3.0) |

| ENGL 2310 | Technical Communication |

Select ONE from the following:

| Select ONE from the following: | 3 |
| ART 1400 | Graphic Computer Applications (3.0) |
| DGM 1110 | Digital Media Essentials I (4.0) |

Elective Requirements:

| Elective Requirements: | 10 Credits |
| One Foreign Language | 8 |
| Any course 1000 or higher | 2 |

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one foreign language.

Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors
English and Literature

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Enrollment Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

English with an Emphasis in Technical Communication, A.S.

Careers

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors

English, A.A.

Requirements

U.V.U's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the application of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirable diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 60

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<thead>
<tr>
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<tbody>
<tr>
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<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing–Humanities/Social Sciences or ENGL 2020 Intermediate Writing–Science and Technology (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following:

| MATH 1030 Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors) | 3 |
| MATH 1040 Introduction to Statistics (3.0) (recommended for Social Science majors) |
| MATH 1050 College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors) |

Select ONE from the following list:

- ART 1400 Graphic Computer Applications (3.0)
- DGM 1110 Digital Media Essentials I (4.0)

Elective Requirements: 10 Credits

- Any course 1000 or higher

Careers

- Writers and Authors
- Technical Writers
- Editors
- Postsecondary Teachers, All Other
- English Language and Literature Teachers, Postsecondary

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors
English and Literature

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

**Distribution Courses:**

- Biology: 3
- Physical Science: 3
- Additional Biology or Physical Science: 3
- ENGL 2500 Critical Introduction to Literature: 3
- Fine Arts Distribution: 3
- Social/Behavioral Science: 3

**Discipline Core Requirements:** 15 Credits

Select 9 credits from the following:

- ENGL 2510 American Literature before 1865 (3.0)
- ENGL 2520 American Literature after 1865 (3.0)
- ENGL 2610 British Literature before 1800 (3.0)
- ENGL 2620 British Literature after 1800 (3.0)

Complete a minimum of any two lower-division ENGL courses or any lower-division course listed above that has not been previously completed.

**Elective Requirements:** 10 Credits

- One Foreign Language: 8
- Any course 1000 or higher: 2

**Graduation Requirements:**

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one foreign language.

**English, A.A.**

**Careers**

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

**Related Careers**

- English Language and Literature Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

**English, A.S.**

**Requirements**

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

**Total Program Credits: 60**

**General Education Requirements:** 35 Credits

- ENGL 1010 Introduction to Writing: 3
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences: 3
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

- MATH 1030 Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)
- MATH 1040 Introduction to Statistics (3.0) (recommended for Social Science majors)
- MATH 1050 College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)

**Distribution Courses:**

- Biology: 3
- Physical Science: 3
- Additional Biology or Physical Science: 3
- ENGL 2600 Critical Introduction to Literature: 3
- Fine Arts Distribution: 3
- Social/Behavioral Science: 3

**Discipline Core Requirements:** 15 Credits

Select THREE from the following list:

- ENGL 2510 American Literature before 1865 (3.0)
- ENGL 2520 American Literature after 1865 (3.0)
- ENGL 2610 British Literature before 1800 (3.0)
- ENGL 2620 British Literature after 1800 (3.0)

Complete a minimum of any two lower-division ENGL courses or any lower-division course listed above that has not been previously completed.

**Elective Requirements:** 10 Credits

- Any course 1000 or higher: 10

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Course Catalog 2015-2016
UVU’s English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others’ “different” voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 15

**Matriculation Requirements:**

1. AAAS degree or higher from a regionally accredited institution of higher learning and one year full-time employment.

**Discipline Core Requirements:**

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2050</td>
<td>Editing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2310</td>
<td>Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3340</td>
<td>Digital Document Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4340</td>
<td>Advanced Technical Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Requirements:**

Complete ONE of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3050</td>
<td>Advanced Editing and Design for Print Media (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3300</td>
<td>Collaborative Communication for Technology Professions (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3320</td>
<td>Grant and Proposal Writing (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 436R</td>
<td>Topics in Technical Communication (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

**Introductory Course (complete the following):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2250</td>
<td>Creative Process and Imaginative Writing (3.0)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>ENGL 225H</td>
<td>Creative Process and Imaginative Writing (3.0)</td>
</tr>
</tbody>
</table>

**Creative Writing Courses (complete THREE from the following):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3420</td>
<td>Intermediate Fiction Writing (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3430</td>
<td>Play Writing for Creative Writers (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3440</td>
<td>Intermediate Poetry Writing (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3450</td>
<td>Intermediate Creative Nonfiction Writing (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4420</td>
<td>Advanced Fiction Writing I (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4425</td>
<td>Advanced Fiction Writing II (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4440</td>
<td>Advanced Poetry Writing I (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4445</td>
<td>Advanced Poetry Writing II (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4450</td>
<td>Advanced Creative Nonfiction Writing I (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4455</td>
<td>Advanced Creative Nonfiction Writing II (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

**Form and Theory Courses (complete the following):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2600</td>
<td>Critical Introduction to Literature (3.0)</td>
<td></td>
</tr>
</tbody>
</table>
English and Literature

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 412R</td>
<td>Studies in Literary Genres (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

**Elective Requirements:** 3 Credits

Choose from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3050</td>
<td>Advanced Editing and Design for Print Media (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3460</td>
<td>Wilderness and Environmental Writing (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 373R</td>
<td>Literature of Cultures and Places (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 471R</td>
<td>Eminent Authors (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 481R</td>
<td>Internship (1.0) *</td>
<td></td>
</tr>
<tr>
<td>ENGL 490R</td>
<td>Directed Readings (1.0) *</td>
<td></td>
</tr>
</tbody>
</table>

**Graduation Requirements:**

1. Complete all courses with no grade lower than a C-.

* Footnote
  * Must be completed for a total of 3 credits

**English Creative Writing, Minor**

**Careers**

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

**Related Careers**

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Writers and Authors

**English Education, Minor**

**Requirements**

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimate their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

**Total Program Credits: 18**

**Matriculation Requirements:**

1. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865; or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800; or ENGL 2620, British Literature after 1800.
2. Must be accepted into a Secondary Education major

**Discipline Core Requirements:** 18 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2510</td>
<td>American Literature before 1865 (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 2520</td>
<td>American Literature after 1865 (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 2610</td>
<td>British Literature before 1800 (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 2620</td>
<td>British Literature after 1800 (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 2600</td>
<td>Critical Introduction to Literature (3.0)</td>
<td></td>
</tr>
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</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGL 3890</td>
<td>Contemporary Critical Approaches to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4210</td>
<td>Methods in Teaching Literacy I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4220</td>
<td>Methods in Teaching Literacy II</td>
<td>3</td>
</tr>
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</table>

Choose one from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3010</td>
<td>Rhetorical Theory (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3020</td>
<td>Modern English Grammars (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3040</td>
<td>History of the English Language (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3510</td>
<td>Early American Literature (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3520</td>
<td>Literature of the American Renaissance (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3525</td>
<td>American Literary Realism and Naturalism (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3530</td>
<td>Modern American Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3540</td>
<td>Contemporary American Literature (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3610</td>
<td>Medieval Literature (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3620</td>
<td>Tudor British Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3630</td>
<td>Stuart British Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3640</td>
<td>Restoration and 18th Century British Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3650</td>
<td>Romantic British Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3655</td>
<td>Victorian British Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3660</td>
<td>Modern British Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3670</td>
<td>Contemporary British Literature (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

**Graduation Requirements:**

1. Complete all courses with no grade lower than a C- and no grade lower than a B- in methods courses.

**English Education, Minor**

**Careers**

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

**Related Careers**

- Education Teachers, Postsecondary
- English Language and Literature Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education
English Literary Studies, Minor

Requirements

UVU’s English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others’ “different” voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 18

Matriculation Requirements:

1. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865; or ENGL 2520, American Literature after 1865, and ENGL 2610, British Literature before 1800; or ENGL 2620, British Literature after 1800.

Discipline Core Requirements: 18 Credits

Complete the following:

ENGL 3090 Academic Writing for English Majors 3
ENGL 3890 Contemporary Critical Approaches to Literature 3

Complete ONE from the following:

ENGL 3510 Early American Literature (3.0)
ENGL 3520 Literature of the American Renaissance (3.0)
ENGL 3525 American Literary Realism and Naturalism (3.0)
ENGL 3530 Modern American Literature (3.0)
ENGL 3540 Contemporary American Literature (3.0)

Complete ONE of the following: 3

ENGL 3610 Medieval Literature (3.0)
ENGL 3620 Tudor British Literature (3.0)
ENGL 3630 Stuart British Literature (3.0)
ENGL 3640 Restoration and 18th Century British Literature (3.0)
ENGL 3650 Romantic British Literature (3.0)
ENGL 3655 Victorian British Literature (3.0)
ENGL 3660 Modern British Literature (3.0)
ENGL 3670 Contemporary British Literature (3.0)

Complete ONE from the following: 3

ENGL 3010 Rhetorical Theory (3.0)
ENGL 3020 Modern English Grammars (3.0)
ENGL 3040 History of the English Language (3.0)

Complete ONE from the following: 3

ENGL 3420 Intermediate Fiction Writing (3.0)
ENGL 3440 Intermediate Poetry Writing (3.0)
ENGL 3710 Literature by Women (3.0)
ENGL 373R Literature of Cultures and Places (3.0)
ENGL 374G Literature of the Sacred (3.0)
ENGL 376G World Literature (3.0)

Graduation Requirements:

1. Complete all courses with no grade lower than a C-.

English Literary Studies, Minor

Careers

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

• English Language and Literature Teachers, Postsecondary
• Secondary School Teachers, Except Special and Career/Technical Education

Technical Communication, Minor

Requirements

UVU’s English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others’ “different” voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 20

Matriculation Requirements:

1. Completion of 35 semester credits with a cumulative GPA: 2.5 minimum.
   Or completion of an Associate in Science or an Associate in Arts degree. Minimum grade of “C” in all courses.
2. Admitted to a bachelor degree program at UVU.
English and Literature

Discipline Core Requirements: 20 Credits

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3010</td>
<td>Rhetorical Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4340</td>
<td>Advanced Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 481R</td>
<td>Internship</td>
<td>2</td>
</tr>
</tbody>
</table>

Complete FOUR courses from the following: 12 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3020</td>
<td>Modern English Grammars</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3040</td>
<td>History of the English Language</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3050</td>
<td>Advanced Editing and Design for Print Media</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3300</td>
<td>Collaborative Communication for Technology Professions</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3320</td>
<td>Grant and Proposal Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3340</td>
<td>Digital Document Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3460</td>
<td>Wilderness and Environmental Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 436R</td>
<td>Topics in Technical Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Technical Communication, Minor

Careers:

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors

Writing Studies, Minor

Requirements

UVU’s English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others’ “different” voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 21

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3060</td>
<td>Visual Rhetoric</td>
<td>3</td>
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</tbody>
</table>

Elective Requirements: 9 Credits

Complete TWO of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2050</td>
<td>Editing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3050</td>
<td>Advanced Editing and Design for Print Media</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3320</td>
<td>Grant and Proposal Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4340</td>
<td>Advanced Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 436R</td>
<td>Topics in Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 481R</td>
<td>Internship</td>
<td>1</td>
</tr>
</tbody>
</table>

Language and Cultural Rhetorics: Complete ONE of the following: 3 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2030</td>
<td>Writing for Social Change</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3030</td>
<td>Writing in the Disciplines</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3070</td>
<td>Public Rhetoric and Popular Media</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 401R</td>
<td>Topics in Rhetoric</td>
<td>3</td>
</tr>
</tbody>
</table>

Writing Studies, Minor Careers

Careers:

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors

English - Creative Writing Emphasis, B.A.

Requirements

UVU’s English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others’ “different” voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 120

Matriculation Requirements:

Complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2600</td>
<td>Critical Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2510</td>
<td>American Literature before 1865</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2520</td>
<td>American Literature after 1865</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2610</td>
<td>British Literature before 1800</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2620</td>
<td>British Literature after 1800</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements: 36 Credits
## Elective Requirements:

### Language Core - Complete one of the following:

- **ENGL 1010** Introduction to Writing (3)
- **ENGL 2010** Intermediate Writing--Humanities/Social Sciences (3)
- **ENGL 2020** Intermediate Writing--Science and Technology (3.0)

Complete one of the following:

- **MATH 1030** Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)
- **MATH 1040** Introduction to Statistics (3.0) (recommended for Social Science majors)
- **MATH 1050** College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)

Complete one of the following:

- **HIST 2700** US History to 1877 (3.0)
- **HIST 2710** US History since 1877 (3.0)
- **HIST 1700** American Civilization (3.0)
- **HIST 1740** US Economic History (3.0)
- **POLS 1000** American Heritage (3.0)
- **POLS 1100** American National Government (3.0)

Complete the following:

- **PHIL 2050** Ethics and Values (3)
- **HLTH 1100** Personal Health and Wellness (2)
- **PES 1097** Fitness for Life (2.0)

**Distribution Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution (Fulfilled with Foreign Language 202G/2020 course)*</td>
<td>4</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements:** 22 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2510</td>
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<tr>
<td>ENGL 2520</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2610</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2620</td>
<td>3</td>
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<tr>
<td>ENGL 2600</td>
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</tr>
<tr>
<td>ENGL 3000</td>
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<tr>
<td>ENGL 3090</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3890</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4950</td>
<td>3</td>
</tr>
</tbody>
</table>

**Language Core - Complete one of the following:**

- **ENGL 3010** Rhetorical Theory (3.0)
- **ENGL 3020** Modern English Grammars (3.0)
- **ENGL 3040** History of the English Language (3.0)

**Elective Requirements:** 35 Credits

- One Foreign Language (Foreign Language 202G/2020)* course fulfills Humanities Distribution (12)

---

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits, 40 of which must be upper division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. No grade below C- in required courses.
7. Successful completion of at least one Global/Intercultural course.

**Footnote**

* Should be taken early on in the student's course of study, by the junior year at the latest.

** Should be taken early in the student's junior year, as it serves as crucial preparation for nearly all upper-division English courses.

*** Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.

+ Course is taken twice as two different genres.

---

**English - Creative Writing Emphasis, B.A.**

**Careers**

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.
**Related Careers**
- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Writers and Authors

**English - Creative Writing Emphasis, B.S. Requirements**

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

**Total Program Credits: 120**

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete the following courses:</td>
<td></td>
</tr>
<tr>
<td>ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Complete one of the following:</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030 Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040 Introduction to Statistics (3.0) (recommended for Social Science majors)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050 College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Complete one of the following:</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740 US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000 American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100 American National Government (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Complete the following:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Distribution Courses:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
</tbody>
</table>

| Additional Biology or Physical Science | 3 |
| Humanities Distribution | 3 |
| Fine Arts Distribution | 3 |
| Social/Behavioral Science | 3 |

**Discipline Core Requirements:** 22 Credits

| ENGL 2510 American Literature before 1865 | 3 |
| or ENGL 2520 American Literature after 1865 (3.0) |  |
| ENGL 2610 British Literature before 1800 | 3 |
| or ENGL 2620 British Literature after 1800 (3.0) |  |
| ENGL 2600 Critical Introduction to Literature | 3 |
| ENGL 3000 Professional Considerations for the English Major * | 1 |
| ENGL 3090 Academic Writing for English Majors ** | 3 |
| ENGL 3890 Contemporary Critical Approaches to Literature | 3 |
| ENGL 4950 Senior Seminar | 3 |

**Language Core:** Complete one of the following: *** 3

| ENGL 3010 Rhetorical Theory (3.0) |  |
| ENGL 3020 Modern English Grammars (3.0) |  |
| ENGL 3040 History of the English Language (3.0) |  |

**Elective Requirements:** 36 Credits

Complete any courses 1000 level or higher. Upper division may be necessary for graduation. Please see Adviser.

**Emphasis Requirements:** 27 Credits

Complete THREE from the following: 9

| ENGL 3420 Intermediate Fiction Writing (3.0) |  |
| ENGL 3430 Play Writing for Creative Writers (3.0) |  |
| ENGL 3440 Intermediate Poetry Writing (3.0) |  |
| ENGL 3450 Intermediate Creative Nonfiction Writing (3.0) |  |

Complete TWO from the following (both courses must be within the same genre): 6

| ENGL 4420 Advanced Fiction Writing I (3.0) |  |
| ENGL 4425 Advanced Fiction Writing II (3.0) |  |
| ENGL 4440 Advanced Poetry Writing I (3.0) |  |
| ENGL 4445 Advanced Poetry Writing II (3.0) |  |
| ENGL 4450 Advanced Creative Nonfiction Writing I (3.0) |  |
| ENGL 4455 Advanced Creative Nonfiction Writing II (3.0) |  |

Complete the following: 6

| ENGL 412R Studies in Literary Genres + |  |

Complete 6 upper-division credits of ENGL coursework beyond those courses taken to fulfill discipline core or emphasis requirements.

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits, 40 of which must be 3000 level or higher.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. No grade below C- in required courses.
6. Successful completion of at least one Global/Intercultural course.
The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with an understanding that English is a desirably diverse and variable phenomenon. The courses in English at UVU are also well prepared for graduate work in law, business, and education.

**Requirements**

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

**Total Program Credits: 122**

**Matriculation Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Secondary Education Matriculation Requirements:**

1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass LiveScan Criminal Background Check.

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2860 Introduction to Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**English and Literature**

**Related Careers**

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Writers and Authors

**Careers:**

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

**English Education, B.A.**

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Complete one of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030 Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040 Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

**Complete one of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700 US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>and HIST 2710 US History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700 American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740 US Economic History</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000 American Heritage</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100 American National Government</td>
<td>3</td>
</tr>
</tbody>
</table>

**Complete the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTU 1100 Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

**Distribution Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution (Fulfilled with Foreign Language 202G/2020 course)*</td>
<td>4</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Program Credits: 74 Credits**

**Complete the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2600 Critical Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2510 American Literature before 1865</td>
<td>3</td>
</tr>
</tbody>
</table>

**Complete the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2610 British Literature before 1800</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2620 British Literature after 1800</td>
<td>3</td>
</tr>
</tbody>
</table>

**Complete the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3090 Academic Writing for English Majors</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3890 Contemporary Critical Approaches to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4210 Methods in Teaching Literacy I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4230 Methods in Teaching Literacy III Teaching the Conventions of Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 4220 Methods in Teaching Literacy II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Language Core (complete ONE from the following):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3010 Rhetorical Theory</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 3020 Modern English Grammars</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 3040 History of the English Language</td>
<td>3</td>
</tr>
</tbody>
</table>

**American Literature (complete TWO from the following):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3510 Early American Literature</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 3520 Literature of the American Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 3525 American Literary Realism and Naturalism</td>
<td>3</td>
</tr>
</tbody>
</table>
English and Literature

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3530</td>
<td>Modern American Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3540</td>
<td>Contemporary American Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>British Literature, pre-1800 (complete ONE from the following)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 3610</td>
<td>Medieval Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3620</td>
<td>Tudor British Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3630</td>
<td>Stuart British Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3640</td>
<td>Restoration and 18th Century British Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>British Literature, post-1800 (complete ONE from the following)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 3650</td>
<td>Romantic British Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3655</td>
<td>Victorian British Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3660</td>
<td>Modern British Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3670</td>
<td>Contemporary British Literature (3.0)</td>
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</tbody>
</table>

Complete TWO from the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3420</td>
<td>Intermediate Fiction Writing (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3440</td>
<td>Intermediate Poetry Writing (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3710</td>
<td>Literature by Women (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 373R</td>
<td>Literature of Cultures and Places (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 374G</td>
<td>Literature of the Sacred (3.0)</td>
<td></td>
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<tr>
<td>ENGL 376G</td>
<td>World Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3780</td>
<td>Mormon Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3820</td>
<td>History of Literary Criticism (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 401R</td>
<td>Topics in Rhetoric (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 412R</td>
<td>Studies in Literary Genres (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4250</td>
<td>Adolescent Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4420</td>
<td>Advanced Fiction Writing I (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4440</td>
<td>Advanced Poetry Writing I (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4450</td>
<td>Advanced Creative Nonfiction Writing I (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4570</td>
<td>Studies in the American Novel (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4620</td>
<td>Chaucer (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 463R</td>
<td>Topics in Shakespeare (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 4640</td>
<td>Milton (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 471R</td>
<td>Eminent Authors (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 474R</td>
<td>Topics in Folklore (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 476G</td>
<td>Multi-ethnic Literature in America (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 486R</td>
<td>Topics in Literature (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Secondary Education Licensure (ENGL 4210 is substituted for EDSC 4440):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSC 3000</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 3050</td>
<td>Foundations of American Education</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 3250</td>
<td>Instructional Media</td>
<td>2</td>
</tr>
<tr>
<td>EDSP 3400</td>
<td>Exceptional Students</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4200</td>
<td>Classroom Management I</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4250</td>
<td>Classroom Management II</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 445G</td>
<td>Multicultural Instruction ESL</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4550</td>
<td>Secondary Curriculum Instruction and Assessment</td>
<td>3</td>
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</table>

Elective Requirements: 12 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSC 4850</td>
<td>Student Teaching–Secondary</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>One Foreign Language (Foreign Language 202G/2020* course fulfills Humanities Distribution)</td>
<td>12</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 122 semester credits.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. For the BA degree, completion of 16 credit hours of course work from one foreign language to include the 1010, 1020, 2010, and 202G/2020* levels or transferred equivalents.
6. Successful completion of at least one Global/Intercultural course.

English Education, B.A.

Careers:

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- Education Teachers, Postsecondary
- English Language and Literature Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

English Education, B.S.

Requirements

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Total Program Credits: 122

Matriculation Requirements:

1. Completion of the following prerequisite courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865 or ENGL 2520, American Literature after 1865; ENGL 2610, British Literature before 1800 or ENGL 2620, British Literature after 1800.

Secondary Education Matriculation Requirements:

1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Reading 500, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
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5. Pass LiveScan Criminal Background Check.

### General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following:

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following:

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
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<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

### Distribution Courses:

**Biology** 3
**Physical Science** 3
**Additional Biology or Physical Science** 3
**Humanities Distribution** 3
**Fine Arts Distribution** 3
**Social/Behavioral Science** 3

### Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2600</td>
<td>Critical Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2510</td>
<td>American Literature before 1866</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2520</td>
<td>American Literature after 1865</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2610</td>
<td>British Literature before 1800</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2620</td>
<td>British Literature after 1800</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3090</td>
<td>Academic Writing for English Majors</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3690</td>
<td>Contemporary Critical Approaches to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4210</td>
<td>Methods in Teaching Literacy I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4220</td>
<td>Methods in Teaching Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4230</td>
<td>Methods in Teaching Literacy III Teaching the Conventions of Writing</td>
<td>3</td>
</tr>
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</table>

### Language Core (complete ONE from the following)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3010</td>
<td>Rhetorical Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3020</td>
<td>Modern EnglishGrammars</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3040</td>
<td>History of the English Language</td>
<td>3</td>
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</tbody>
</table>

### American Literature (complete TWO from the following)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3510</td>
<td>Early American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3520</td>
<td>Literature of the American Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3525</td>
<td>American Literary Realism and Naturalism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3530</td>
<td>Modern American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3540</td>
<td>Contemporary American Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

### British Literature, pre-1800 (complete ONE from the following)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3610</td>
<td>Medieval Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3620</td>
<td>Tudor British Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3630</td>
<td>Stuart British Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3640</td>
<td>Restoration and 18th Century British Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

### British Literature, post-1800 (complete ONE from the following)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3650</td>
<td>Romantic British Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3655</td>
<td>Victorian British Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3660</td>
<td>Modern British Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3670</td>
<td>Contemporary British Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete TWO from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3420</td>
<td>Intermediate Fiction Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3440</td>
<td>Intermediate Poetry Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3710</td>
<td>Literature by Women</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 373R</td>
<td>Literature of Cultures and Places</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 374G</td>
<td>Literature of the Sacred</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 376G</td>
<td>World Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3780</td>
<td>Mormon Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3820</td>
<td>History of Literary Criticism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 401R</td>
<td>Topics in Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 412R</td>
<td>Studies in Literary Genres</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4250</td>
<td>Adolescent Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4420</td>
<td>Advanced Fiction Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4440</td>
<td>Advanced Poetry Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4450</td>
<td>Advanced Creative Nonfiction Writing I</td>
<td>3</td>
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<tr>
<td>ENGL 4570</td>
<td>Studies in the American Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4620</td>
<td>Chaucer</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 463R</td>
<td>Topics in Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4640</td>
<td>Milton</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 471R</td>
<td>Eminent Authors</td>
<td>3</td>
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<tr>
<td>ENGL 474R</td>
<td>Topics in Folklore</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 476G</td>
<td>Multi-ethnic Literature in America</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 486R</td>
<td>Topics in Literature</td>
<td>3</td>
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</table>

Secondary Education Licensure (ENGL 4210 is substituted for EDSC 4440):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDSC 3000</td>
<td>Educational Psychology</td>
<td>3</td>
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<tr>
<td>EDSC 3050</td>
<td>Foundations of American Education</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 3250</td>
<td>Instructional Media</td>
<td>2</td>
</tr>
<tr>
<td>ESP 3400</td>
<td>Exceptional Students</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4200</td>
<td>Classroom Management I</td>
<td>2</td>
</tr>
</tbody>
</table>
English and Literature

EDSC 4250 Classroom Management II 2
EDSC 4450 Multicultural Instruction ESL 3
EDSC 4550 Secondary Curriculum Instruction and Assessment 3
EDSC 4850 Student Teaching--Secondary 10

Elective Requirements: 13 Credits
Any course 1000 or higher (from AA/AS degree). 13

Graduation Requirements:
1. Completion of a minimum of 122 semester credits.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

English Education, B.S.
Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers
• Education Teachers, Postsecondary
• English Language and Literature Teachers, Postsecondary
• Middle School Teachers, Except Special and Career/Technical Education
• Secondary School Teachers, Except Special and Career/Technical Education

English- Literary Studies Emphasis, B.A.
Requirements
UVU’s English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others’ "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 120

Matriculation Requirements:
1. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.

General Education Requirements: 36 Credits
ENGL 1010 Introduction to Writing 3
ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3

or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3
MATH 1030 Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)
MATH 1040 Introduction to Statistics (3.0) (recommended for Social Science majors)
MATH 1050 College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)

Complete the following: 3
HIST 2700 US History to 1877 (3.0)
and HIST 2710 US History since 1877 (3.0)
HIST 1700 American Civilization (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)

Complete the following:
PHIL 2050 Ethics and Values 3
HLTH 1100 Personal Health and Wellness 2
or PES 1097 Fitness for Life (2.0)

Distribution Courses:
Biology 3
Physical Science 3
Additional Biology or Physical Science 3
Humanities Distribution (Fulfilled with Foreign Language 202G/2020 course)* 4
Fine Arts Distribution 3
Social/Behavioral Science 3

Discipline Core Requirements: 22 Credits
ENGL 2510 American Literature before 1865 3
ENGL 2520 American Literature after 1865 (3.0)
ENGL 2610 British Literature before 1800 3
ENGL 2620 British Literature after 1800 (3.0)
ENGL 2600 Critical Introduction to Literature 3
ENGL 3000 Professional Considerations for the English Major 1
ENGL 3090 Academic Writing for English Majors ** 3
ENGL 3890 Contemporary Critical Approaches to Literature 3
ENGL 4950 Senior Seminar 3

Language Core- Complete one of the following: *** 3
ENGL 3010 Rhetorical Theory (3.0)
ENGL 3020 Modern English Grammars (3.0)
ENGL 3040 History of the English Language (3.0)

Elective Requirements: 35 Credits
One Foreign Language (Foreign Language 202G/2020* course fulfills Humanities Distribution) 12
Complete any courses 1000 level or higher. Upper division courses may be necessary for graduation. Please see Adviser. 23

Emphasis Requirements: 27 Credits
American Literature (complete TWO from the following) 6
ENGL 3510 Early American Literature (3.0)
ENGL 3520 Literature of the American Renaissance (3.0)
ENGL 3525 American Literary Realism and Naturalism (3.0)
ENGL 3530 Modern American Literature (3.0)
ENGL 3540 Contemporary American Literature (3.0)

British Literature, pre-1800 (complete ONE from the following) 3
ENGL 3610 Medieval Literature (3.0)
ENGL 3620 Tudor British Literature (3.0)
ENGL 3630 Stuart British Literature (3.0)
ENGL 3640 Restoration and 18th Century British Literature (3.0)

British Literature, post-1800 (complete ONE from the following) 3
ENGL 3650 Romantic British Literature (3.0)
ENGL 3655 Victorian British Literature (3.0)
ENGL 3660 Modern British Literature (3.0)
ENGL 3670 Contemporary British Literature (3.0)

Shakespeare (Complete the following)
ENGL 463R Topics in Shakespeare 3

Literature Elective (Complete ONE of the following) 3
ENGL 357G Native American Literature (3.0)
ENGL 3710 Literature by Women (3.0)
ENGL 373R Literature of Cultures and Places (3.0)
ENGL 374G Literature of the Sacred (3.0)
ENGL 376G World Literature (3.0)
ENGL 3790 Mormon Literature (3.0)
ENGL 3820 History of Literary Criticism (3.0)
ENGL 4570 Studies in the American Novel (3.0)
ENGL 4620 Chaucer (3.0)
ENGL 4640 Milton (3.0)
ENGL 471R Eminent Authors (3.0)
ENGL 476G Multi-ethnic Literature in America (3.0)
ENGL 486R Topics in Literature (3.0)

Complete 9 upper-division credits of ENGL coursework beyond those courses taken to fulfill discipline core or emphasis requirements. 9

** Graduation Requirements:**

1. Completion of a minimum of 120 semester credits, 40 of which must be upper division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours – minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. No grade below C- in required courses.
7. Successful completion of at least one Global/Intercultural course.

**Footnote**

* Should be taken early on in the student's course of study, by the junior year at the latest.
** Should be taken early in the student's junior year, as it serves as crucial preparation for nearly all upper-division English courses.
*** Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.

** English- Literary Studies Emphasis, B.A. Careers**

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

**Related Careers**
- English Language and Literature Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

** English- Literary Studies Emphasis, B.S. Requirements**

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others’ “different” voices, not just in the academy, but in any of the many situations in which language influences human activity.

**Total Program Credits: 120**

**Matriculation Requirements:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865; or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.</td>
<td>39</td>
</tr>
</tbody>
</table>

**General Education Requirements:** 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENGL 2020 Intermediate Writing--Science and</td>
<td>3</td>
</tr>
<tr>
<td>Technology</td>
<td></td>
</tr>
<tr>
<td>MATH 1030 Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>(recommended for Humanities or Arts majors)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040 Introduction to Statistics (3.0)</td>
<td></td>
</tr>
<tr>
<td>(recommended for Social Science majors)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050 College Algebra (4.0)</td>
<td></td>
</tr>
<tr>
<td>(recommended for Business, Education,</td>
<td></td>
</tr>
<tr>
<td>Science, and Health Professions majors)</td>
<td></td>
</tr>
<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
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<td></td>
<td>3</td>
</tr>
</tbody>
</table>
## English and Literature

**British Literature, pre-1800 (complete ONE from the following)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3640</td>
<td>Restoration and 18th Century British Literature (3.0)</td>
</tr>
<tr>
<td>ENGL 3540</td>
<td>Modern American Literature (3.0)</td>
</tr>
<tr>
<td>ENGL 3530</td>
<td>American Literary Realism and Naturalism (3.0)</td>
</tr>
<tr>
<td>ENGL 3525</td>
<td>American Literature before 1800 (3.0)</td>
</tr>
<tr>
<td>ENGL 3520</td>
<td>American Romantic Literature (3.0)</td>
</tr>
<tr>
<td>ENGL 3510</td>
<td>Early American Literature (3.0)</td>
</tr>
</tbody>
</table>

**American Literature (complete TWO from the following)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3610</td>
<td>Restoration and 18th Century British Literature (3.0)</td>
</tr>
<tr>
<td>ENGL 3620</td>
<td>Tudor British Literature (3.0)</td>
</tr>
<tr>
<td>ENGL 3630</td>
<td>Stuart British Literature (3.0)</td>
</tr>
<tr>
<td>ENGL 3640</td>
<td>Restoration and 18th Century British Literature (3.0)</td>
</tr>
<tr>
<td>ENGL 3650</td>
<td>Romantic British Literature (3.0)</td>
</tr>
<tr>
<td>ENGL 3655</td>
<td>Victorian British Literature (3.0)</td>
</tr>
<tr>
<td>ENGL 3660</td>
<td>Modern British Literature (3.0)</td>
</tr>
<tr>
<td>ENGL 3670</td>
<td>Contemporary British Literature (3.0)</td>
</tr>
</tbody>
</table>

**Emphasis Requirements:**

- **British Literature, post-1800 (complete ONE from the following)**
  - ENGL 3650: Romantic British Literature (3.0)
  - ENGL 3655: Victorian British Literature (3.0)
  - ENGL 3660: Modern British Literature (3.0)
  - ENGL 3670: Contemporary British Literature (3.0)

**Shakespeare (Complete the following)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 463R</td>
<td>Topics in Shakespeare (3.0)</td>
</tr>
</tbody>
</table>

**Distribution Courses:**

- Biology (3.0)
- Physical Science (3.0)
- Additional Biology or Physical Science (3.0)
- Humanities Distribution (3.0)
- Fine Arts Distribution (3.0)
- Social/Behavioral Science (3.0)

**Discipline Core Requirements:**

- **Language Core- Complete one of the following:**
  - ENGL 3010: Academic Writing for English Majors ** (3.0)
  - ENGL 3020: Modern English Grammars (3.0)
  - ENGL 3040: History of the English Language (3.0)

- **Elective Requirements:**
  - Complete any courses 1000 level or higher. Upper division may be necessary for graduation. Please see Adviser. (36 credits)

- **Emphasis Requirements:**
  - American Literature (complete TWO from the following) (6 credits)
  - ENGL 3510: Early American Literature (3.0)
  - ENGL 3520: Literature of the American Renaissance (3.0)
  - ENGL 3525: American Literary Realism and Naturalism (3.0)
  - ENGL 3530: Modern American Literature (3.0)
  - ENGL 3540: Contemporary American Literature (3.0)

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits, 40 of which must be 3000 level or higher.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. No grade below C- in required courses.
6. Successful completion of at least one Global/Intercultural course.

**Footnote**

- **Should be taken early on in the student's course of study, by the junior year at the latest.**
- **Should be taken early in the student's junior year, as it serves as crucial preparation for nearly all upper-division English courses.**
- **Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.**

**English- Literary Studies Emphasis, B.S.**

**Careers**

Employees expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.
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Total Program Credits: 120

Matriculation Requirements:

1. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865; ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.

General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0) (recommended for Social Science majors)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
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<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
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<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
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<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
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<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
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<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life (2.0)</td>
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Distribution Courses:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Credits</th>
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<tbody>
<tr>
<td>Biology</td>
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<td>3</td>
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<tr>
<td>Physical Science</td>
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<td>3</td>
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<tr>
<td>Additional Biology or Physical Science</td>
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Elective Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2040</td>
<td>Introduction to Writing Studies (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3060</td>
<td>Visual Rhetoric (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2310</td>
<td>Technical Communication (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 481R</td>
<td>Internship (take for at least 3 credits)</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Professional Writing Practices--Complete TWO of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2050</td>
<td>Editing (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3050</td>
<td>Advanced Editing and Design for Print Media (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3320</td>
<td>Grant and Proposal Writing (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3340</td>
<td>Digital Document Design (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4340</td>
<td>Advanced Technical Communication (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 436R</td>
<td>Topics in Technical Communication (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Language and Cultural Rhetorics--Complete TWO of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2030</td>
<td>Writing for Social Change (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3030</td>
<td>Writing in the Disciplines (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3070</td>
<td>Public Rhetorics and Popular Media (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 401R</td>
<td>Topics in Rhetoric (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements: 1. Completion of a minimum of 120 semester credits, 40 of which must be upper division.
English and Literature

2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours – minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. No grade below C- in required courses.
7. Successful completion of at least one Global/Intercultural course.

Footnote
* Should be taken early on in the student's course of study, by the junior year at the latest.
** Should be taken early in the student's junior year, as it serves as crucial preparation for nearly all upper-division English courses.
*** Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.

English- Writing Studies Emphasis, B.A.

Careers
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers
- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors

English- Writing Studies Emphasis, B.S.

Requirements
UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 120

Matriculation Requirements:

1. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800 or ENGL 2620, British Literature after 1800.
2. General Education Requirements: 35 Credits
   - ENGL 1010 Introduction to Writing 3
   - ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3

Elective Requirements: 36 Credits
Complete any courses 1000 level or higher. Upper division may be necessary for graduation. Please see Adviser.

Emphasis Requirements: 27 Credits
Complete ALL of the following:
- ENGL 2040 Introduction to Writing Studies (3.0)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3060</td>
<td>Visual Rhetoric (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 2310</td>
<td>Technical Communication (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 481R</td>
<td>Internship (take for at least 3 credits)</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**Professional Writing Practices**—Complete TWO of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2050</td>
<td>Editing (3.0)</td>
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<tr>
<td>ENGL 4340</td>
<td>Advanced Technical Communication (3.0)</td>
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</tr>
<tr>
<td>ENGL 436R</td>
<td>Topics in Technical Communication (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

**Language and Cultural Rhetorics**—Complete TWO of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2030</td>
<td>Writing for Social Change (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3030</td>
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<td></td>
</tr>
<tr>
<td>ENGL 401R</td>
<td>Topics in Rhetoric (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete 3 upper-division credits of ENGL coursework beyond those courses taken to fulfill discipline core or emphasis requirements. 3

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits, 40 of which must be 3000 level or higher.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours — minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. No grade below C- in required courses.
6. Successful completion of at least one Global/Intercultural course.

**Footnote**

* Should be taken early on in the student's course of study, by the junior year at the latest.

** Should be taken early in the student's junior year, as it serves as crucial preparation for nearly all upper-division English courses.

*** Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.

**English- Writing Studies Emphasis, B.S.**

**Careers**

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

**Related Careers**

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors
Exercise Science and Outdoor Recreation

Mission Statement
The Mission of the Department of Exercise Science and Outdoor Recreation is consistent with the College’s Mission in its commitment to providing students with excellent professional, ethical, and exciting educational experiences through modern, effective pedagogical and scholarly approaches. Baccalaureate programs offered in Physical Education Teacher Education (PETE), and Exercise Science and Outdoor Recreation with emphases in Exercise Science (EXSC), and Outdoor Recreation (REC) provide a broad discipline approach for optimal promotion of physical activity, recreation, fitness, health, wellness, and quality of life for all. The curricula are balanced in theory and application and are specifically designed to provide students with experiential education that promotes leadership, teamwork, service learning, values, diversity, and lifelong learning. To best serve our students, curricula have been designed to reflect current market demands. Depending on the specific area of study, graduates from this program will possess exceptional knowledge and skills in the following areas:

- Kinesiology
- Exercise Science
- Physical Education Pedagogy
- Outdoor Recreation and Education
- Health and Fitness Promotion
- Experiential Education
- Resource Management

In addition to preparing students for professional opportunities or graduate study in related fields, the program is intended to prepare all students for a variety of professional certifications offered in their respective fields of study. The faculty in the department work collaboratively and strive to support the Mission through our commitment to outstanding teaching, mentorship, service, and professional and scholarly development.

Exercise Science & Outdoor Recreation

Program Coordinators:

Exercise Science: Michael Bohne
- Office: PE 147k
- Telephone: 801-863-8439
- Email: Michael.Bohne@uvu.edu

Outdoor Recreation: Betsy Lindley
- Office: PE 147g
- Telephone: 801-863-6094
- Email: Lindlebe@uvu.edu

Physical Education Teacher Education: Shaunna McGhie
- Office: PE 147m
- Telephone: 801-863-8663
- Email: shaunna.moghie@uvu.edu

Advisors:
Jeannine Rushing
Course Descriptions

Exercise Science ........................................................................................................................................... 634
Physical Education Sports ............................................................................................................................. 699
Physical Education Teacher Ed. ...................................................................................................................... 702
Physical Education Recreation ...................................................................................................................... 718

Degrees & Programs

Exercise Science and Outdoor Recreation, A.A.

Requirements

Students who complete an Associate's Degree in Exercise Science and Outdoor Recreation have received the basic knowledge necessary to continue their education in a Bachelor's Program or pursue employment in the Fitness industry.

Total Program Credits: 60

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following: 3

| MATH 1030 Quantitative Reasoning (3.0) |
| MATH 1040 Introduction to Statistics (3.0) |
| MATH 1050 College Algebra (4.0) |

Complete one of the following: 3

| HIST 2700 US History to 1877 (3.0) |
| and HIST 2710 US History since 1877 (3.0) |
| HIST 1700 American Civilization (3.0) |
| HIST 1740 US Economic History (3.0) |
| POLS 1000 American Heritage (3.0) |
| POLS 1100 American National Government (3.0) |

Complete the following:

| PHIL 2050 Ethics and Values | 3 |
| HLTH 1100 Personal Health and Wellness | 2 |

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

Elective Requirements: 9 Credits

| Same Foreign Language | 8 |
| Any 1000-level course or higher | 1 |

Exercise Science and Outdoor Recreation, A.A. Careers

Careers:

Students who complete an Associate's Degree in Exercise Science and Outdoor Recreation have received the basic knowledge necessary to continue their education in a Bachelor's Program or pursue employment in the Fitness industry. Possible positions might include personal trainers, group fitness instructors, fitness coordinators, sport coaches or other entry level positions in a recreational or clinical setting.

Related Careers

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
Exercise Science and Outdoor Recreation, A.S.

Requirements

Students who complete an Associate's Degree in Exercise Science and Outdoor Recreation have received the basic knowledge necessary to continue their education in a Bachelor's Program or pursue employment in the Fitness industry.

Total Program Credits: 60

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
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<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
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</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following:

| MATH 1030 Quantitative Reasoning (3.0) | 3 |
| MATH 1040 Introduction to Statistics (3.0) | 3 |
| MATH 1050 College Algebra (4.0) | 3 |

Complete one of the following:

| HIST 2700 US History to 1877 (3.0) | 3 |
| HIST 2710 US History since 1877 (3.0) | 3 |
| HIST 1700 American Civilization (3.0) | 3 |
| HIST 1740 US Economic History (3.0) | 3 |
| POLS 1000 American Heritage (3.0) | 3 |
| POLS 1100 American National Government (3.0) | 3 |

Complete the following:

| PHIL 2050 Ethics and Values | 3 |
| HLT 1100 Personal Health and Wellness (2.0) | 2 |
| or PES 1097 Fitness for Life | 2 |

Distribution Courses:

- Biology (ZOOL 1090 strongly recommended) (3.0)
- Physical Science (3.0)
- Additional Biology or Physical Science (ZOOL 2020 and ZOOL 2025 strongly recommended) (3.0)
- Humanities Distribution (3.0)
- Fine Arts Distribution (3.0)
- Social/Behavioral Science (3.0)

Complete 13 credits from the following: 13

| CHEM 1110 Elementary Chemistry for the Health Sciences (4.0) | 3 |
| ZOOL 2320 Human Anatomy (3.0) | 3 |
| ZOOL 2325 Human Anatomy Laboratory (1.0) | 3 |
| ZOOL 2420 Human Physiology (3.0) | 3 |
| ZOOL 2425 Human Physiology Laboratory (1.0) | 3 |
| MATH 2040 Principles of Statistics (4.0) | 3 |

Elective Requirements: 9 Credits

- Complete any 1000-level or higher

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Exercise Science and Outdoor Recreation, A.S. Careers

Careers:

Students who complete an Associate's Degree in Exercise Science and Outdoor Recreation have received the basic knowledge necessary to continue their education in a Bachelor's Program or pursue employment in the Fitness industry. Possible positions might include personal trainers, group fitness instructors, fitness coordinators, sport coaches or other entry level positions in a recreational or clinical setting.

Related Careers:

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Exercise Science and Outdoor Recreation, Minor

Requirements

In the Exercise Science and Outdoor Recreation Minor students complete courses in Anatomy, Physiology, Sport Medicine, Exercise Testing and Prescription, and Exercise Physiology. The program is designed to prepare students for employment at the entry level in health and fitness related occupations as well as for higher education.

Total Program Credits: 19

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>19 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSC 270G Foundations of Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 2500 Sports Medicine</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 2510 Sports Medicine Lab</td>
<td>1</td>
</tr>
<tr>
<td>EXSC 3270 Exercise Testing and Prescription</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 3700 Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 3705 Exercise Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Choose two of the following:</td>
<td>5</td>
</tr>
<tr>
<td>EXSC 3500 Kinesiology (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 3750 Psychosocial Aspects of Human Performance (2.0)</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 3550 Motor Learning and Control (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>
Exercise Science and Outdoor Recreation

Course Catalog 2015-2016

Utah Valley University

EXSC 4000 Clinical Exercise Physiology (3.0)
EXSC 4100 Fitness Across the Lifespan (3.0)
EXSC 4550 Principles of Strength and Conditioning (3.0)

Exercise Science and Outdoor Recreation, Minor

Careers

Students who complete a Minor in Exercise Science and Outdoor Recreation have received the basic knowledge necessary to continue their education in a Bachelor's Program or pursue employment in the Fitness industry. Possible positions might include personal trainers, group fitness instructors, fitness coordinators, sport coaches or other entry level positions in a recreational or clinical setting.

Related Careers

• Recreation and Fitness Studies Teachers, Postsecondary
• Athletes and Sports Competitors
• Coaches and Scouts
• Fitness Trainers and Aerobics Instructors

Outdoor Recreation, Minor

Requirements

In the Exercise Science and Outdoor Recreation Minor students complete courses in Anatomy, Physiology, Sport Medicine, Exercise Testing and Prescription, and Exercise Physiology. The program is designed to prepare students for employment at the entry level in health and fitness related occupations as well as for higher education.

Total Program Credits: 20

Matriculation Requirements:

1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 20 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 1535</td>
<td>Backpacking</td>
<td>1</td>
</tr>
<tr>
<td>REC 2200</td>
<td>Foundations of Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 2400</td>
<td>Principles of Experiential Education in Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 3100</td>
<td>Recreation Program Planning</td>
<td>3</td>
</tr>
<tr>
<td>REC 3400</td>
<td>Risk Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete 1 credit from the following: 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 1500</td>
<td>Canoeing I (1.0)</td>
</tr>
<tr>
<td>REC 1527</td>
<td>Rock Climbing I (1.0)</td>
</tr>
<tr>
<td>REC 1550</td>
<td>Mountain Biking I (1.0)</td>
</tr>
<tr>
<td>REC 1580</td>
<td>Kayak Touring (1.0)</td>
</tr>
</tbody>
</table>

Complete 6 credits from the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 3200</td>
<td>Inclusive Recreation (3.0)</td>
<td></td>
</tr>
<tr>
<td>REC 3500</td>
<td>Recreation Administration (3.0)</td>
<td></td>
</tr>
<tr>
<td>REC 3700</td>
<td>Natural Resource Interpretation (3.0)</td>
<td></td>
</tr>
<tr>
<td>REC 385G</td>
<td>Ethical Concerns in Recreation (3.0)</td>
<td></td>
</tr>
<tr>
<td>REC 4000</td>
<td>Outdoor Leadership (4.0)</td>
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</tr>
<tr>
<td>REC 4400</td>
<td>Natural Resource and Protected Area Management (3.0)</td>
<td></td>
</tr>
<tr>
<td>REC 4500</td>
<td>Wildland Recreation Behavior (3.0)</td>
<td></td>
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</table>

Outdoor Recreation, Minor

Careers

Students who complete a Minor in Exercise Science and Outdoor Recreation have received the basic knowledge necessary to continue their education in a Bachelor's Program or pursue employment in the Fitness industry. Possible positions might include personal trainers, group fitness instructors, fitness coordinators, sport coaches or other entry level positions in a recreational or clinical setting.

Related Careers

• Recreation and Fitness Studies Teachers, Postsecondary
• Athletes and Sports Competitors
• Coaches and Scouts
• Fitness Trainers and Aerobics Instructors

Exercise Science and Outdoor Recreation - Exercise Science Emphasis, B.A.

Requirements

The Exercise Science curriculum has been designed to address student needs and current market demands. Through practical experiences in laboratory settings using state of the art equipment such as the Biodex S4, students are exposed to real life rehabilitation experiences as well as researching functional abilities and performance aspects of collegiate athletes. Additional classroom and lab experiences allow students to conduct 3-D motion analysis, measure muscle activity using wireless EMG technology, and analyze gait patterns using the GaitRite System, as well as conducting assessments to determine maximum oxygen uptake (VO2 Max), body composition, and anaerobic power.

Total Program Credits: 120

General Education Requirements: 37 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
</tr>
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Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
</tr>
</tbody>
</table>

Complete the following: 3

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<thead>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1010</td>
<td>General Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 1090</td>
<td>Introduction to Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution (any foreign language 202G/2020 course)</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Fine Arts Distribution: 3
Exercise Science and Outdoor Recreation

Social/Behavioral Science 3

Discipline Core Requirements: 16 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSC 3500</td>
<td>Kinesiology</td>
</tr>
<tr>
<td>EXSC 3550</td>
<td>Motor Learning and Control</td>
</tr>
<tr>
<td>EXSC 3750</td>
<td>Psychosocial Aspects of Human Performance</td>
</tr>
<tr>
<td>EXSC 3270</td>
<td>Exercise Testing and Prescription (3.0)</td>
</tr>
<tr>
<td>or REC 385G</td>
<td>Ethical Concerns in Recreation</td>
</tr>
<tr>
<td>EXSC 4300</td>
<td>Research Methods in Exercise Science and Outdoor Recreation</td>
</tr>
<tr>
<td>EXSC 4950</td>
<td>Senior Seminar (2.0)</td>
</tr>
<tr>
<td>or REC 4950</td>
<td>Senior Seminar</td>
</tr>
</tbody>
</table>

Elective Requirements: 15 Credits

Complete 12 credit hours of course work from one language to include the 1010, 1020, and 2010 levels (202G/2020 level completed in GE requirements).

- Any 1000-level course of higher 3

Emphasis Requirements: 46 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1110</td>
<td>Elementary Chemistry for the Health Sciences</td>
</tr>
<tr>
<td>CHEM 1210</td>
<td>Principles of Chemistry I (4.0)</td>
</tr>
<tr>
<td>ZOOL 2320</td>
<td>Human Anatomy</td>
</tr>
<tr>
<td>and ZOOL 2325</td>
<td>Human Anatomy Laboratory</td>
</tr>
<tr>
<td>ZOOL 2420</td>
<td>Human Physiology</td>
</tr>
<tr>
<td>and ZOOL 2425</td>
<td>Human Physiology Laboratory</td>
</tr>
<tr>
<td>EXSC 2500</td>
<td>Sports Medicine</td>
</tr>
<tr>
<td>and EXSC 2510</td>
<td>Sports Medicine Lab</td>
</tr>
<tr>
<td>EXSC 270G</td>
<td>Foundations of Exercise Science</td>
</tr>
<tr>
<td>EXSC 3700</td>
<td>Exercise Physiology</td>
</tr>
<tr>
<td>and EXSC 3705</td>
<td>Exercise Physiology Laboratory</td>
</tr>
<tr>
<td>EXSC 3730</td>
<td>Biomechanics</td>
</tr>
<tr>
<td>EXSC 3850</td>
<td>Ethical Concerns in Exercise Science</td>
</tr>
<tr>
<td>MATH 2040</td>
<td>Principles of Statistics</td>
</tr>
<tr>
<td>or BESC 3010</td>
<td>Statistics for the Behavioral Sciences (4.0)</td>
</tr>
<tr>
<td>or EXSC 3400</td>
<td>Statistical Analysis in Exercise Science (3.0)</td>
</tr>
</tbody>
</table>

Choose 13 credits from the following (make sure selections will satisfy the requirements for upper-division course work):

- EXSC 4000 Clinical Exercise Physiology (3.0)
- EXSC 4100 Fitness Across the Lifespan (3.0)
- EXSC 4200 Exercise Metabolism (3.0)
- EXSC 4400 Physical Activity Promotion in the Community (3.0)
- and EXSC 4410 Promoting Physical Activity in the Community Field Experience (1.0)
- EXSC 4500 Advanced Sports Nutrition (3.0)
- EXSC 4550 Principles of Strength and Conditioning (3.0)
- EXSC 4600 Advanced Biomechanics (3.0)
- EXSC 4700 Advanced Gross Motor Assessment (3.0)
- CHEM 1220 Principles of Chemistry II (4.0)
- PHYS 2020 College Physics II (4.0)
- ZOOL 4400 Pathophysiology (4.0)
- ZOOL 4700 Advanced Anatomy (4.0)
- PSY 3400 Abnormal Psychology (3.0)

Emphasis Elective Requirements: 6 Credits

- Any course 1000-level or higher 3

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. No grades below C- in Discipline Core or Emphasis Courses.
7. Successful completion of at least one Global/Intercultural course.

Note: Students must obtain the departmental advisor's signature on an approved program plan prior to enrollment in their second semester of study.

Exercise Science and Outdoor Recreation - Exercise Science Emphasis, B.A.

Careers

Students completing the Exercise Science Concentration will be qualified for several different graduate school programs and a variety of careers including fitness and health promotion, exercise testing, strength and conditioning, corporate wellness, clinical exercise physiology, cardiac rehab, etc. This major can also lead to acceptance into medical, dental, physical or occupational therapy and other graduate or professional schools.

Related Careers

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Exercise Science and Outdoor Recreation - Exercise Science Emphasis, B.S.

Requirements

The Exercise Science curriculum has been designed to address student needs and current market demands. Through practical experiences in laboratory settings using state of the art equipment such as the Biodex S4, students are exposed to real life rehabilitation experiences as well as researching functional abilities and performance aspects of collegiate athletes. Additional classroom and lab experiences allow students to conduct 3-D motion analysis, measure muscle activity using wireless EMG technology, and analyze gait patterns using the GaitRite System, as well as conducting assessments to determine maximum oxygen uptake (VO2 Max), body composition, and anaerobic power.

Total Program Credits: 120

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3
- or ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3
- MATH 1050 College Algebra 4

Complete one of the following:

- ENGL 2020 Intermediate Writing--Science and Technology (3.0)
Exercise Science and Outdoor Recreation

Course Catalog 2015-2016

Utah Valley University 317

HIST 2700 US History to 1877 (3.0)
or HIST 2710 US History since 1877 (3.0)
HIST 1700 American Civilization (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)

Complete the following:
PHIL 2050 Ethics and Values 3
HLTH 1100 Personal Health and Wellness (2.0)
or PES 1097 Fitness for Life 2

Distribution Courses:
BIOL 1010 General Biology 3
Physical Science 3
ZOOLO 1090 Introduction to Human Anatomy and Physiology 3
Humanities Distribution 3
Fine Arts Distribution 3
Social/Behavioral Science 3

Discipline Core Requirements: 16 Credits
EXSC 3500 Kinesiology 3
EXSC 3550 Motor Learning and Control 3
EXSC 3750 Psychosocial Aspects of Human Performance 2
EXSC 3270 Exercise Testing and Prescription (3.0)
or REC 385G Ethical Concerns in Recreation 3
EXSC 4300 Research Methods in Exercise Science and Outdoor Recreation 3
EXSC 4950 Senior Seminar (2.0)
or REC 4950 Senior Seminar 2

Elective Requirements: 15 Credits
Any 1000 level or higher 15

Emphasis Requirements: 46 Credits
CHEM 1110 Elementary Chemistry for the Health Sciences 4
CHEM 1210 Principles of Chemistry I (4.0)
ZOOLO 2320 Human Anatomy 3
ZOOLO 2325 Human Anatomy Laboratory 1
ZOOLO 2420 Human Physiology 3
ZOOLO 2425 Human Physiology Laboratory 1
EXSC 2500 Sports Medicine 3
EXSC 2510 Sports Medicine Lab 1
EXSC 270G Foundations of Exercise Science 3
EXSC 3700 Exercise Physiology 3
EXSC 3705 Exercise Physiology Laboratory 1
EXSC 3730 Biomechanics 3
EXSC 3850 Ethical Concerns in Exercise Science 3
MATH 2040 Principles of Statistics 4
BESC 3010 Statistics for the Behavioral Sciences (4.0)
EXSC 3400 Statistical Analysis in Exercise Science (3.0)

Choose 13 credits from the following (make sure selections will satisfy the requirements for upper-division course work):

- EXSC 4000 Clinical Exercise Physiology (3.0)
- EXSC 4100 Fitness Across the Lifespan (3.0)
- EXSC 4200 Exercise Metabolism (3.0)
- EXSC 4400 Physical Activity Promotion in the Community (3.0)
- EXSC 4410 Promoting Physical Activity in the Community Field Experience (1.0)
- EXSC 4550 Principles of Strength and Conditioning (3.0)
- EXSC 4500 Advanced Sports Nutrition (3.0)
- EXSC 4600 Advanced Biomechanics (3.0)
- EXSC 4700 Advanced Gross Motor Assessment (3.0)
- CHEM 1220 Principles of Chemistry II (4.0)
- PHYS 2020 College Physics II (4.0)
- ZOOLO 4400 Pathophysiology (4.0)
- ZOOLO 4700 Advanced Anatomy (4.0)
- PSY 3400 Abnormal Psychology (3.0)

Emphasis Elective Requirements: 7 Credits
Any courses 1000-level or higher 7

Graduation Requirements:
1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. No grades below C- in Discipline Core or Emphasis Courses.
6. Successful completion of at least one Global/Intercultural course.

Note: Students must obtain the departmental advisor’s signature on an approved program plan prior to enrollment in their second semester of study.

Exercise Science and Outdoor Recreation - Exercise Science Emphasis, B.S.

Careers:

Students completing the Exercise Science Concentration will be qualified for several different graduate school programs and a variety of careers including fitness and health promotion, exercise testing, strength and conditioning, corporate wellness, clinical exercise physiology, cardiac rehab, etc. This major can also lead to acceptance into medical, dental, physical or occupational therapy and other graduate or professional schools.

Related Careers
- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors
Exercise Science and Outdoor Recreation -
Outdoor Recreation Management Emphasis, B.A.

Requirements
In addition to a strong background in recreation theory, experiential education, outdoor leadership, risk management and program planning, graduates of this program leave with a proficiency in a variety of both land and water-based skill acquisition courses, such as avalanche awareness, whitewater kayaking and backpacking. More than preparation for a career in the outdoor field, the major in Outdoor Recreation Management grooms students for a lifetime of outdoor participation and leadership.

Total Program Credits: 121

General Education Requirements: 37 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
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<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
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<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
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<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
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Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
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</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
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<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
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</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
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</table>

Complete the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
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</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
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</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1010</td>
<td>General Biology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 1090</td>
<td>Introduction to Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution (any foreign language 202G/2020 course)</td>
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<tr>
<td>Fine Arts Distribution</td>
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<td>3</td>
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<tr>
<td>Social/Behavioral Science</td>
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Discipline Core Requirements: 16 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSC 3500</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 3550</td>
<td>Motor Learning and Control</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 3750</td>
<td>Psychosocial Aspects of Human Performance</td>
<td>2</td>
</tr>
<tr>
<td>EXSC 3270</td>
<td>Exercise Testing and Prescription (3.0)</td>
<td></td>
</tr>
<tr>
<td>or REC 385G</td>
<td>Ethical Concerns in Recreation</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 4300</td>
<td>Research Methods in Exercise Science and Outdoor Recreation</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 4950</td>
<td>Senior Seminar (2.0)</td>
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</tr>
<tr>
<td>or REC 4950</td>
<td>Senior Seminar</td>
<td>2</td>
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Elective Requirements: 15 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Complete 12 credit hours of course work from one language to include the 1010, 1020, and 2010 levels (202G/2020 level completed in GE requirements).</td>
<td>12</td>
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<td>Any 1000-level course of higher</td>
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<td>3</td>
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Emphasis Requirements: 53 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MGMT 3170</td>
<td>Entrepreneurship</td>
<td>3</td>
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<tr>
<td>or MGMT 3180</td>
<td>Small Business Development (3.0)</td>
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<tr>
<td>or MGMT 3210</td>
<td>Convention and Events Management (3.0)</td>
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</tr>
<tr>
<td>or ENGL 3320</td>
<td>Grant and Proposal Writing (3.0)</td>
<td></td>
</tr>
<tr>
<td>or BIOL 3800</td>
<td>Conservation Biology (3.0)</td>
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</tr>
<tr>
<td>REC 1535</td>
<td>Backpacking</td>
<td>1</td>
</tr>
<tr>
<td>REC 1542</td>
<td>Wilderness First Responder</td>
<td>2</td>
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<tr>
<td>REC 1500</td>
<td>Canoeing I</td>
<td>1</td>
</tr>
<tr>
<td>or REC 1580</td>
<td>Kayak Touring (1.0)</td>
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</tr>
<tr>
<td>REC 1600</td>
<td>Winter Exploration</td>
<td>1</td>
</tr>
<tr>
<td>REC 2200</td>
<td>Foundations of Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 2400</td>
<td>Principles of Experiential Education in Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 2600</td>
<td>Principles of Outdoor and Adventure Education</td>
<td>3</td>
</tr>
<tr>
<td>REC 2700</td>
<td>Leave No Trace Trainer</td>
<td>1</td>
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<tr>
<td>REC 3100</td>
<td>Recreation Program Planning</td>
<td>3</td>
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<td>REC 3200</td>
<td>Inclusive Recreation</td>
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<tr>
<td>REC 3300</td>
<td>Wilderness Skills</td>
<td>1</td>
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<td>REC 3400</td>
<td>Risk Management</td>
<td>3</td>
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<tr>
<td>REC 3500</td>
<td>Recreation Administration</td>
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<tr>
<td>REC 4400</td>
<td>Natural Resource and Protected Area Management</td>
<td>3</td>
</tr>
<tr>
<td>REC 420R</td>
<td>Outdoor Leadership and Management Practicum</td>
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<tr>
<td>REC 4800</td>
<td>Pre-Internship Seminar</td>
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</tr>
<tr>
<td>REC 481R</td>
<td>Senior Internship</td>
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Complete 2 credits from the following: 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>REC 1516</td>
<td>Ropes Course and Teambuilding (1.0)</td>
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<tr>
<td>REC 1525</td>
<td>Mountaineering (1.0)</td>
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</tr>
<tr>
<td>REC 1527</td>
<td>Rock Climbing I (1.0)</td>
<td></td>
</tr>
<tr>
<td>REC 1550</td>
<td>Mountain Biking (1.0)</td>
<td></td>
</tr>
<tr>
<td>REC 1505</td>
<td>Whitewater Kayaking I (1.0)</td>
<td></td>
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</tbody>
</table>

Complete 6 credits from the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 2450</td>
<td>Rock Climbing Site Management and Facilitation (3.0)</td>
<td></td>
</tr>
<tr>
<td>or REC 2650</td>
<td>Principles of Challenge Education (3.0)</td>
<td></td>
</tr>
<tr>
<td>or REC 2750</td>
<td>Principles of Water-Based Adventure Education (3.0)</td>
<td></td>
</tr>
<tr>
<td>REC 3700</td>
<td>Natural Resource Interpretation (3.0)</td>
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<tr>
<td>REC 4000</td>
<td>Outdoor Leadership (4.0)</td>
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</tr>
<tr>
<td>REC 4500</td>
<td>Wildland Recreation Behavior (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. No grades below C- in Discipline Core or Emphasis Courses.
7. Successful completion of at least one Global/Intercultural course.

Note: Students must obtain the departmental advisor’s signature on an approved program plan prior to enrollment in their second semester of study.

Exercise Science and Outdoor Recreation - Outdoor Recreation Management Emphasis, B.A.

Careers

Careers:

Students completing the Outdoor Recreation Management emphasis are prepared for positions in all areas of the outdoor industry, including public and commercial recreation, wilderness therapy programs, guide services, state parks, federal land management agencies, and the Forestry Service.

Related Careers

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Exercise Science and Outdoor Recreation - Outdoor Recreation Management Emphasis, B.S.

Requirements

In addition to a strong background in recreation theory, experiential education, outdoor leadership, risk management and program planning, graduates of this program leave with a proficiency in a variety of both land and water-based skill acquisition courses, such as avalanche awareness, whitewater kayaking and backpacking. More than preparation for a career in the outdoor field, the major in Outdoor Recreation Management grooms students for a lifetime of outdoor participation and leadership.

Total Program Credits: 120

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>36 Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
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<tr>
<td>ENGL 2010 Intermediate Writing–Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing–Science and Technology (3.0)</td>
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</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

| HIST 2700 US History to 1877 (3.0) | |
| or HIST 2710 US History since 1877 (3.0) | |
| HIST 1700 American Civilization (3.0) | |
| HIST 1740 US Economic History (3.0) | |
| POLS 1000 American Heritage (3.0) | |
| or POLS 1100 American National Government (3.0) | |

Complete the following: 2

| PHIL 2050 Ethics and Values | 3 |
| or HLT 1100 Personal Health and Wellness (2.0) | |

or PES 1097 Fitness for Life | 2 |

Distribution Courses:

| BIOL 1010 General Biology | 3 |
| Physical Science | 3 |
| ZOOL 1090 Introduction to Human Anatomy and Physiology | 3 |

| Humanities Distribution | 3 |
| Fine Arts Distribution | 3 |
| Social/Behavioral Science | 3 |

Discipline Core Requirements: 16 Credits

| EXSC 3500 Kinesiology | 3 |
| EXSC 3550 Motor Learning and Control | 3 |
| EXSC 3750 Psychosocial Aspects of Human Performance | 2 |
| or EXSC 3270 Exercise Testing and Prescription (3.0) | |

or REC 385G Ethical Concerns in Recreation | 3 |
| or EXSC 4300 Research Methods in Exercise Science and Outdoor Recreation | 3 |
| or EXSC 4950 Senior Seminar (2.0) | |
| or REC 4950 Senior Seminar | 2 |

Elective Requirements: 15 Credits

Any 1000 level or higher 15

Emphasis Requirements: 53 Credits

| MGMT 3170 Entrepreneurship | 3 |
| or MGMT 3180 Small Business Development (3.0) | |
| or MGMT 3210 Convention and Events Management (3.0) | |
| or ENGL 3320 Grant and Proposal Writing (3.0) | |
| or BIOL 3800 Conservation Biology (3.0) | |
| REC 1500 Canoeing I | 1 |
| or REC 1580 Kayak Touring (1.0) | |
| REC 1542 Wilderness First Responder | 2 |
| REC 1600 Winter Exploration | 1 |
| REC 1535 Backpacking | 1 |
| REC 2200 Foundations of Recreation | 3 |
| REC 2400 Principles of Experiential Education in Recreation | 3 |
| REC 2600 Principles of Outdoor and Adventure Education | 3 |
| REC 2700 Leave No Trace Trainer | 1 |
| REC 3100 Recreation Program Planning | 3 |
| REC 3200 Inclusive Recreation | 3 |
| REC 3300 Wilderness Skills | 1 |
| REC 3400 Risk Management | 3 |
| REC 3500 Recreation Administration | 3 |
| REC 420R Outdoor Leadership and Management Practicum | 2 |
| REC 4400 Natural Resource and Protected Area Management | 3 |
| REC 4800 Pre-Internship Seminar | 1 |
| REC 481R Senior Internship | 8 |

Complete 2 credits from the following: 2
Exercise Science and Outdoor Recreation

| REC 1516 | Ropes Course and Teambuilding (1.0) |
| REC 1525 | Mountain Climbing (1.0) |
| REC 1527 | Rock Climbing I (1.0) |
| REC 1550 | Mountain Biking (1.0) |
| REC 1505 | Whitewater Kayaking I (1.0) |

Complete 6 credits from the following: 6

| REC 2450 | Rock Climbing Site Management and Facilitation (3.0) or REC 2650 | Principles of Challenge Education (3.0) or REC 2750 | Principles of Water-Based Adventure Education (3.0) |
| REC 3700 | Natural Resource Interpretation (3.0) |
| REC 4000 | Outdoor Leadership (4.0) |
| REC 4500 | Wildland Recreation Behavior (3.0) |

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. No grades below C- in Discipline Core or Emphasis Courses.
6. Successful completion of at least one Global/Intercultural course.

Note: Students must obtain the departmental advisor's signature on an approved program plan prior to enrollment in their second semester of study.

Exercise Science and Outdoor Recreation - Outdoor Recreation Management Emphasis, B.S.

Careers:

Students completing the Outdoor Recreation Management emphasis are prepared for positions in all areas of the outdoor industry, including public and commercial recreation, wilderness therapy programs, guide services, state parks, federal land management agencies, and the Forestry Service.

Related Careers

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Physical Education Teacher Education, B.S.

Requirements

Graduates from the Physical Education K-12 Teacher Education (PETE) program will be prepared to meet all standards for Utah licensure for K-12 Physical Education. They should also be prepared to meet most standards for certification in the rest of the 49 states, since the National Initial Physical Education Teacher Education Standards have been used to develop, assess, and update the program on an annual basis. The focus of this program is on enhancing student outcomes – both for university students and for their future students. Outcomes that should be met by the end of the program include scientific and theoretical knowledge, skill and fitness based competency, planning and implementation, instructional delivery and management, impact on student learning, and professionalism. PETE majors learn to individualize instruction to enhance learning for all students, regardless of their abilities.

Total Program Credits: 120

Matriculation Requirements:

1. Acceptance to the Secondary Education Program, which include the following requirements: (1) ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement. (2) GPA of 3.0 or higher. (3) Completion of all General Education requirements and the majority of content area courses. (4) Pass group interview directed by the Secondary Teacher Education Department. (5) Pass LiveScan Criminal Background Check.

2. Complete PETE 3100 with a grade of C or better.

3. Swimming requirement: Current Red Cross WSI or Lifesaving Certification OR pass the swim test to demonstrate minimum water safety techniques. The swim test has two parts: (1) 50 yard swim and (2) drown proofing session. The 50 yard swim must be completed in under 2 minutes and the swimmer must use the Freestyle stroke (front crawl with the head above or below the water) for the first 25 yards and then can use their choice of stroke for the remaining 25 yards. All must be completed without touching the bottom or the side of the pool or lane rope and without assistance. The drown proofing test is a 5 minute session in deep water (>12 feet) where the student must float, tread water, or bob without touching the side of the pool or receiving assistance. Modifications may be made for students with documented disabilities or other contributing factors.

4. Fitness requirement: Students must achieve and maintain a health-enhancing level of fitness. Standards will be set according to expert guidelines that take into effect age, gender, disability, and other contributing factors.

General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
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Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
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Distribution Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tr>
<td>BIOL 1010</td>
<td>General Biology</td>
</tr>
<tr>
<td>or BIOL 1610</td>
<td>College Biology I (4.0)</td>
</tr>
<tr>
<td>or</td>
<td>Physical Science (CHEM 1010 or CHEM 1110 recommended)</td>
</tr>
<tr>
<td>or ZOOL 1090</td>
<td>Introduction to Human Anatomy and Physiology</td>
</tr>
<tr>
<td>or ZOOL 2320</td>
<td>Human Anatomy (3.0)</td>
</tr>
<tr>
<td>Humanities Distribution (COMM 1020 recommended)</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science (PSY 1100 recommended)</td>
<td>3</td>
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</table>

Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSC 2500</td>
<td>Sports Medicine</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 2510</td>
<td>Sports Medicine Lab</td>
<td>1</td>
</tr>
<tr>
<td>EXSC 3500</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 3550</td>
<td>Motor Learning and Control</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 3700</td>
<td>Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>EXSC 3705</td>
<td>Exercise Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EXSC 3750</td>
<td>Psychosocial Aspects of Human Performance</td>
<td>2</td>
</tr>
<tr>
<td>DANC 3400</td>
<td>Dance in the Elementary School</td>
<td>2</td>
</tr>
<tr>
<td>PETE 2110</td>
<td>Elementary Motor Skill Analysis and Performance</td>
<td>1</td>
</tr>
<tr>
<td>PETE 2120</td>
<td>Fitness for Secondary Physical Educators</td>
<td>1</td>
</tr>
<tr>
<td>PETE 2210</td>
<td>Racket Sport Analysis and Teaching Progressions</td>
<td>1</td>
</tr>
<tr>
<td>PETE 2220</td>
<td>Target Sport Analysis and Teaching Progressions</td>
<td>1</td>
</tr>
<tr>
<td>PETE 2230</td>
<td>Individual Sports: Track and Field and Tumbling</td>
<td>1</td>
</tr>
<tr>
<td>PETE 2310</td>
<td>Invasion Sports: Soccer and Team Handball</td>
<td>1</td>
</tr>
<tr>
<td>PETE 2320</td>
<td>Teaching and Analyzing Basketball and Volleyball</td>
<td>1</td>
</tr>
<tr>
<td>PETE 2330</td>
<td>Team Sports for the Physical Educator</td>
<td>1</td>
</tr>
<tr>
<td>PES 1300</td>
<td>Swimming I</td>
<td>1</td>
</tr>
<tr>
<td>PETE 2400</td>
<td>Skill Analysis Capstone</td>
<td>1</td>
</tr>
<tr>
<td>PETE 2700</td>
<td>Foundations of Physical Education K-12 Teacher Education</td>
<td>3</td>
</tr>
<tr>
<td>PETE 3100</td>
<td>Physical Education Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>PETE 3450</td>
<td>Special Populations in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PETE 4200</td>
<td>Methods of Teaching Elementary Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PETE 4210</td>
<td>Elementary Physical Education Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>PETE 4250</td>
<td>Methods of Teaching Secondary Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PETE 4260</td>
<td>Secondary Physical Education Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>PETE 4400</td>
<td>Assessment in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PETE 4900</td>
<td>Student Teaching Seminar for Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>NUTR 1020</td>
<td>Foundations of Human Nutrition</td>
<td>3</td>
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</table>

**Secondary Education Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDSC 3000</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 3050</td>
<td>Foundations of American Education</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 3250</td>
<td>Instructional Media</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4200</td>
<td>Classroom Management I</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4250</td>
<td>Classroom Management II</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4440</td>
<td>Content Area Literacies</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 445G</td>
<td>Multicultural Instruction ESL</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4550</td>
<td>Secondary Curriculum Instruction and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4850</td>
<td>Student Teaching--Secondary</td>
<td>10</td>
</tr>
<tr>
<td>EDSP 3400</td>
<td>Exceptional Students</td>
<td>2</td>
</tr>
</tbody>
</table>

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits with 40 semester credits from 3000 and 4000 level courses.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

### Physical Education Teacher Education, B.S.

#### Careers

Successful completion of the Physical Education Teacher Education degree leads to Licensure in the State of Utah. Graduates from the PETE program will be specifically qualified to teach physical education to the increasingly diverse population of students in K-12 schools in the State of Utah. Their preparation will help meet the anticipated demands for elementary, as well as secondary physical educators in the twenty-first century. Many graduates from the PETE Program also coach at their respective schools.

#### Related Careers

- Education Teachers, Postsecondary
- Recreation and Fitness Studies Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors
Extended Studies

Name: Extended Studies
Location: EE 125
Telephone: 801-863-8449
Email: extend@uvu.edu
Web Address: uvu.edu/extend
Interim Director: Ruth Gowans

Interim Director: Ruth Gowans
  • Office: EE 125d
  • Telephone: 801-863-6216
  • Email: gowansru@uvu.edu

Academic Advisor: Sam Cardenas
  • Office: LC 402Q
  • Telephone: 801-863-6945
  • Email: cardensa@uvu.edu

The Office of Extended Studies coordinates and supports academic educational opportunities for students at non-traditional times and at various locations on and off the main campus. Current locations are:

  • Weekend College
  • UVU North (Lehi and Saratoga Springs)
  • UVU South (Spanish Fork, Springville, Santaquin)
  • UVU West @ National Guard Building
  • Wasatch Campus

Extended Studies strives to continually improve educational opportunities and services to meet student needs by initiating new programs, providing student and faculty services and initiating opportunities for flexible learning experiences. Many programs are available to students interested in earning a degree, increasing job skills necessary for career advancement, or for personal enrichment.

Weekend College

Coordinator: Joy Brown
  • Office: LA 101b
  • Telephone: 801-863-8432
  • Email: brownjy@uvu.edu

Over 2000 students are pursuing their degree at UVU by taking classes through the Weekend College Program. The Weekend College program serves a diverse population that includes adult, part-time and traditional students. More than 115 courses are taught on Friday evenings and Saturdays on the UVU Orem Campus during fall and spring semesters. Classes are scheduled at three times on Saturday allowing students to take classes back to back. During the 10-week summer block, over 50 classes are available.

Courses needed for General Education are offered as well as many upper division courses. The Office of Extended Studies has partnered with several academic departments on campus in facilitating classes necessary for Associate and Bachelor degree programs. These courses are offered in the late afternoon, evenings, online, and at Weekend College in a structured two or three year sequence.

The Weekend College program is characterized by smaller classes, quiet surroundings, excellent faculty and personal interaction among instructors and students. Weekend College staff is available to assist instructors and students while classes are in session.

Academic Programs and Degrees

  • Accounting
  • Art and Visual Communication
  • Behavioral Science
  • Business Management
  • Communication
  • Computer Science
  • Criminal Justice
  • English
  • History
  • Information Technology
  • Legal Studies
  • Political Science
  • Public and Community Health
  • Technology Management
  • University Studies

Student Services Available on Saturdays

  • Academic Advising and Counseling
  • Bookstore
    • Campus Connection
    • Computer Labs
    • Dining Services
  • Library
  • Math Lab
  • Testing Services
  • Writing Lab

UVU North

Coordinator: Sarah Jensen
  • Office: EE 125a
  • Telephone: 801-863-5447
  • Email: SarahJ@uvu.edu

UVU courses are located in the Mountainland Applied Technology College (MATC) Building at Thanksgiving Point (2301 W. Ashton Blvd, Lehi, Utah) and at Westlake High School (99 North Thunder Blvd in Saratoga Springs, Utah).

Day and evening courses are offered to students who need to complete their 1000 and 2000 level General Education requirements and fulfill the coursework necessary for an Associate Degree.

Over 500 students taking classes at UVU North are closer to home, spend less time traveling and can avoid traffic congestion trying to get to classes on campus in Orem. Classes are smaller allowing for personal contact with instructors. A facilitator is available to assist faculty and students while classes are in session.

Academic Programs and Degrees

  • Behavioral Science
  • Business Management
  • University Studies (General Studies)

Student Services Available

  • Academic Advising and Counseling (Sam Cardenas)
  • UVU Math and Science Tutors

UVU South

Coordinator: Vicki Utley
  • Office: EE 125b
  • Telephone: 801-863-8882
  • Email: uflyvi@uvu.edu

Over 500 students are meeting their academic needs by taking classes in the south end of Utah County at Spanish Fork High (99 N. 300 W., Spanish Fork, Utah), Nebo Advanced Learning Center (570 S Main, Springville, Utah), and Santaquin City Hall (275 W Main, Santaquin, Utah).

Day and evening courses are offered to students who need to complete their 1000 and 2000 level General Education requirements and fulfill the coursework necessary for an Associate Degree.
Students taking classes at UVU South are closer to home, spend less time traveling, and can avoid traffic congestion trying to get to classes on campus in Orem. Smaller classes allow for personal contact with instructors. A facilitator is available to assist faculty and students while classes are in session.

Academic Programs and Degrees

- Behavioral Science
- Business Management
- University Studies (General Studies)

Student Services Available

- Academic Advising and Counseling (Sam Cardenas)
- UVU Math and Science Tutors

UVU West at the National Guard Building

Coordinator: Vicki Utley

- Office: EE 125b
- Telephone: 801-863-8882
- Email: utlevi@uvu.edu

UVU West is located west of the UVU Orem Campus across the I-15 Freeway. Both day and evening courses are offered to students at the National Guard Building located at 951 S. Geneva Road.

UVU West is a multi-functional facility with nine enhanced classrooms, a computer lab, and an auditorium where UVU credit and non-credit courses are offered. Interior Design, Nursing, and Public and Community Health courses are also offered at UVU West. UVU West staff is available to assist instructors and students while classes are in session.

More than 40 courses are offered for fall and spring semesters to students who need to complete their General Education requirements. Day and evening classes are also offered both blocks of summer semester.

The Front Runner stops with walking distance of UVU West. In addition the UTA Bus (route 830) travels to and from the main UVU campus and UVU West every 15 minutes throughout the day and evening hours. Vehicle parking is located 100 feet south of the building.

Academic Programs and Degrees

- Interior Design
- Nursing
- Public and Community Health
- University Studies (General Studies)

Wasatch Campus

- Mailing Address:
  3111 N. College Way
  Highway 40
  Heber City, Utah 84032

  - Telephone: 435-654-6482 or 801-863-6601
  - Web Address: uvu.edu/wasatch

Campus Administrator: Thomas Melville

  - Telephone: 801-863-6648
  - Email: Thomas.Melville@uvu.edu

Assistant Campus Administrator: Michael Walker

  - Telephone: 801-863-6608
  - Email: mwalker@uvu.edu

UVU Wasatch Campus is located in Wasatch County between Park City and Heber City, Utah, approximately 30 miles from the Orem Campus. Wasatch Campus is for those who appreciate smaller classes and excellent faculty and staff who are committed to individual academic support and attention.

More than 65 classes are offered to over 400 students who attend Wasatch Campus during fall and spring semesters. First and second block courses are also offered at Wasatch Campus during summer semester. Wasatch Campus staff is available to assist instructors and students every day of the week.

Academic Programs and Degrees

- Behavioral Science
- Business Management
- Elementary Education
- University Studies (General Studies)

Student Services

- Academic Advising and Counseling
- Admissions, Registration and Cashiering Services
- Bookstore
- Career Assessment and Counseling
- Library
- Scoops (Grill)
- Student Life Activities
- Testing and Assessment Services
Finance and Economics

Mission Statement

The department offers three bachelor degree programs in Economics, Finance, and Personal Financial Planning (PFP). Graduates in economics find employment in a variety of public and private institutions while many go on to graduate education in law, public policy, an MBA and other disciplines. Finance major’s move on to careers in corporate financial management, as investment managers and analysts, in banking and other careers in the finance industry. The business world is more competitive today than in past generations. Decision makers understand the increasing importance of getting things right the first time using business models and measurement methods to make policy decisions. The PFP program is designed to prepare students for professional careers as fee-for-service certified financial planners. Unlike the other two degrees that offer Bachelor of Arts and Sciences as well as minors and emphases in integrated studies, the PFP program is restricted to a single bachelor degree. Students who complete the PFP degree will in many respects emulate the careers of accountants who work with individuals and organizations in the management of wealth, personal resources, and provide other professional functions. The PFP Program is certified with the Certified Financial Planner (CFP®) Board of Standards, Inc. The classes taught in the Department of Finance and Economics are designed to give students the background they need to make professional business decisions. The department also offers an online group of courses in cooperation with Dalton Education that meet the CFP® educational requirements for practicing professionals in the financial industry to sit for the accreditation examination.

Experienced faculty work with students in understanding the theory of their discipline and learning to apply that theory in the pragmatic application of those principles in financial management, economics, statistics, and operations management courses critical to their professional development.

Finance & Economics

Job Outlook

The need for economic and financial decision makers is increasing at all levels of business and government. Job demand is high, particularly in larger metropolitan areas, and the employment outlook is excellent. Those trained in finance and economics who also have competence in information analysis can enter fields such as fund management, energy, securities, securities market regulation, or government financial management. Those with foreign language capabilities may also have access to employment in international business, international finance, import/export, and securities operations. The PFP program gives graduates an opportunity to both work for themselves in the capacity of an individual planner as well as to obtain employment in other organizations as they provide needed services to clients.

Programs

As noted earlier, students interested in finance and economics may receive a Bachelor of Science Degree (BS) or Bachelor of Arts (BA) in Economics or Finance. There are also Minors in both Economics and Finance as well as an emphasis in Integrated Studies in both the Economics and Finance disciplines. However, the PFP program only offers a Bachelor of Science (BS) degree with a variety of courses designed to prepare students to take certification exams offered by national financial planning associations.

Course Descriptions

Economics.................................................................................................................................600
Finance.......................................................................................................................................637
Business Management.................................................................................................................680

Degrees & Programs

Operations Management, Certificate of Proficiency

Requirements

The Certificate in Operations Management gives graduates specialized skills in the analysis of how businesses manage processes to improve organizational functions. Graduates learn principles of scheduling, production, inventory management, quality management, lean processing, and other activities required for efficient organizational functions.

Total Program Credits: 22

Discipline Core Requirements: 22 Credits

Prerequisites may be required:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
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</tr>
<tr>
<td>MGMT 2240</td>
<td>Business Quantitative Analysis (3.0)</td>
<td>3</td>
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<tr>
<td>MGMT 2340</td>
<td>Business Statistics I (3.0)</td>
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<tr>
<td>ECON 3340</td>
<td>Managerial Statistics (3.0)</td>
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<tr>
<td>MGMT 3450</td>
<td>Operations Management (3.0)</td>
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</table>
MGMT 3070  Total Quality Management (3.0)  3
MGMT 3470  Lean Management Systems (3.0)  3

Graduation Requirements:
1. Completion of a minimum of 22 semester credits.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: minimum of 6 credit hours through course attendance at UVU.

Operations Management, Certificate of Proficiency
Careers
Production managers, schedulers, quality managers, purchasing managers, process analysts, efficiency managers, expeditors, and varied other business operations specialists.

Related Careers
- Computer and Information Systems Managers
- Industrial Production Managers
- Construction Managers
- Logisticians
- Business Teachers, Postsecondary
- First-Line Supervisors of Mechanics, Installers, and Repairers
- First-Line Supervisors of Production and Operating Workers

Economics, Minor
Requirements
The Minor in Economics is intended for graduates from other disciplines to obtain the basics of economic theory and application to facilitate their ability to use economics analytical processes in the development of professional careers. Graduates learn the concepts of marginal analysis, demand and supply theory, characteristics of production and cost processes, and other related issues.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>12 Credits</th>
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<tbody>
<tr>
<td>ECON 2010 Microeconomics</td>
<td>3</td>
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<tr>
<td>ECON 2020 Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3020 Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3830 History of Economic Thought</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 6 Credits
Choose six hours from the following courses:
- ECON 3030 Intermediate Macroeconomics (3.0)
- ECON 3040 Environmental Economics (3.0)
- ECON 3810 Labor Economics (3.0)
- ECON 3820 Economic Development (3.0)
- ECON 4150 Public Finance (3.0)
- ECON 4320 Mathematical Economics (3.0)
- FIN 4100 Management of Financial Institutions (3.0)
- FIN 4180 International Finance Management (3.0)

Finance, Minor
Careers
Graduates will work in banking or investment sales.

Related Careers
- Chief Executives
- General and Operations Managers
- Financial Managers
- Budget Analysts
- Credit Analysts
- Financial Analysts
- Personal Financial Advisors
- Loan Officers
- Financial Specialists, All Other
- Business Teachers, Postsecondary

Economics, B.A.
Requirements
The Bachelor degree in economics at WSB is designed to give graduates the analytic and quantitative skills to be effective business decision makers as well as to understand basic economic theory and application that can be useful should they choose to continue graduate studies in economics or related disciplines. Historically, graduates with economics degrees who go on to legal studies, an MBA, or other related professional degrees do significantly better than students from other disciplines. Students with language skills may take an appropriate range of academic courses and obtain a Bachelor of Arts degree.

Total Program Credits: 120
Finance and Economics

General Education Requirements: 37 Credits

ENGL 1010 Introduction to Writing 3
ENGL 2010 Intermediate Writing—Humanities/Social Sciences 3
or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
MATH 1050 College Algebra 4

Complete one of the following: 3
HIST 2700 US History to 1877 (3.0)
and
HIST 2710 US History since 1877 (3.0)
HIST 1700 American Civilization (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)

Complete the following:
PHIL 2050 Ethics and Values 3
HLTH 1100 Personal Health and Wellness (2.0)
PES 1097 Fitness for Life 2

Distribution Courses:
ECON 2020 Macroeconomics (fulfills Social/Behavioral Science credit) 3
Biology 3
Physical Science 3
Additional Biology or Physical Science 3
Humanities Distribution (any foreign language 202G/2020 class) 4
Fine Arts Distribution 3

Discipline Core Requirements: 71 Credits

Business Foundation Courses:
ACC 2010 Financial Accounting 3
ACC 2020 Managerial Accounting 3
Business Computer Proficiency Exam
or IM 2010 Business Computer Proficiency (3.0) *
ECON 2010 Microeconomics 3
MATH 1100 Introduction to Calculus 3
or MGMT 2240 Business Quantitative Analysis (3.0)
MKTG 2200 Written Business Communication (Complete with B- grade or higher) 3
MGMT 2340 Business Statistics I 3

Business Core Courses:
FIN 3100 Principles of Finance 3
INFO 3120 Management Information Systems 3
LEGL 3000 Business Law 3
MKTG 3600 Principles of Marketing 3
MGMT 3000 Organizational Behavior 3
MGMT 3450 Operations Management 3
MGMT 493R Entrepreneurship Lecture Series (1.0)
or MGMT 495R Executive Lecture Series 1

Economics Core Requirements:
ECON 3010 Intermediate Microeconomics 3
ECON 3030 Intermediate Macroeconomics 3
ECON 305G International Economics 3
ECON 3340 Managerial Statistics 3
ECON 3370 Economic Modeling and Quantitative Analysis 3
ECON 3830 History of Economic Thought 3
ECON 4340 Econometrics Applications 3
ECON 4960 Senior Seminar Current Economic Issues 3

Economics Elective Requirements:
Choose 10 credits from any 3000 or 4000 level ACC, ECON, or FIN course not already taken in consultation with appropriate faculty or an advisor. 10

Elective Requirements: 12 Credits
Complete 12 credits of any foreign language course 1010, 1020, 2010 sequence 12

Graduation Requirements:
1. Completion of a minimum of 120 semester credits required in the BA degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until advanced standing status is completed.

Footnote
* Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

Economics, B.A.
Careers
Preparation for graduate work, banking, financial analysis, market analysis, government analysts, business consulting, and management.

Related Careers
• Managers, All Other
• Economists
• Survey Researchers
• Economics Teachers, Postsecondary

Economics, B.S.
Requirements
The Bachelor degree in economics at WSB is designed to give graduates the analytic and quantitative skills to be effective business decision makers as well as to understand basic economic theory and application that can be useful should they choose to continue graduate studies in economics or related disciplines. Historically, graduates with economics degrees who go on to legal studies, an MBA, or other related professional degrees do significantly better than students from other disciplines. Students with language skills may take an appropriate range of academic courses and obtain a Bachelor of Arts degree.

Total Program Credits: 120
## General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
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<tbody>
<tr>
<td>ENGL 1010</td>
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<td>Intermediate Writing--Science and Technology</td>
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<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
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Complete one of the following:

- HIST 2700  US History to 1877 (3.0)
- HIST 2710  US History since 1877 (3.0)
- HIST 1700  American Civilization (3.0)
- HIST 1740  US Economic History (3.0)
- POLS 1000  American Heritage (3.0)
- POLS 1100  American National Government (3.0)

Complete the following:

- PHIL 2050  Ethics and Values                       | 3       |
- HLTH 1100  Personal Health and Wellness (2.0)     | 2       |

### Distribution Courses:

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<tr>
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### Discipline Core Requirements:

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<td>Business Quantitative Analysis (3.0)</td>
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<td>MKTG 2200</td>
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<td>FIN 3100</td>
<td>Principles of Finance</td>
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<td>INFO 3120</td>
<td>Management Information Systems</td>
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<td>LEGL 3000</td>
<td>Business Law</td>
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<tr>
<td>MKTG 3600</td>
<td>Principles of Marketing</td>
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<td>MGMT 3000</td>
<td>Organizational Behavior</td>
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<td>MGMT 3450</td>
<td>Operations Management</td>
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<tr>
<td>or MGMT 495R</td>
<td>Executive Lecture Series</td>
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### Business Core Courses:

### Economics Core Requirements:

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<td>ECON 305G</td>
<td>International Economics</td>
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<td>ECON 4960</td>
<td>Senior Seminar Current Economic Issues</td>
<td>3</td>
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</tbody>
</table>

### Economics Elective Requirements:

Select 13 credits from any 3000 or 4000 level ACC, ECON, or FIN course not already taken in consultation with an appropriate faculty or advisor. 

### Elective Requirements:

Complete 10 credits of any courses 1000 or higher

### Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

### Economics Elective Requirements:

Students will be limited to 9 hours of upper-division credit until advanced standing status is completed.

### Footnote

* Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

### Economics, B.S. Careers

Preparation for graduate work, banking, financial analysis, market analysis, government analysts, business consulting, and management.

### Related Careers

- Managers, All Other
- Economists
- Survey Researchers
- Economics Teachers, Postsecondary

### Finance, B.A. Requirements

The Bachelor Degree in Finance at WSB prepares graduates for careers in the financial services industry. Students learn basic financial theory as well as specialized courses in financial management of corporate and business organizations, analysis of investment alternatives, and other more sophisticated finance related activities. Graduates go into banking, brokerages, become financial managers, and perform a variety of other financial services functions. Students with language skills may take an appropriate number of courses to obtain a Bachelor of Arts degree.

### Total Program Credits: 120
### General Education Requirements: 37 Credits

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### Distribution Courses:

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### Discipline Core Requirements: 71 Credits

#### Business Foundation Courses:

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<td>Operations Management</td>
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<tr>
<td>ECON 305G</td>
<td>International Economics</td>
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<td>or MGMT 330G</td>
<td>Survey of International Business (3.0)</td>
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<td>or MGMT 332G</td>
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### General Education Requirements: 37 Credits

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### Discipline Core Requirements: 71 Credits

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### Finance Elective Requirements:

Choose 12 credits from any 3000 or 4000 level ACC, ECON, or FIN course not already taken in consultation with appropriate faculty or an advisor.

### Elective Requirements:

Complete 12 credits of any foreign language course 1010, 1020, 2010 sequence

### Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BA degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

**NOTE:** Students will be limited to 9 hours of upper-division credit until advanced standing status is completed.

### Footnote

* Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

### Finance, B.A.

#### Careers

Financial managers, investment sales and analysis, securities brokers, banking, corporate financial management, wealth and asset managers.

### Related Careers

- Chief Executives
- General and Operations Managers
- Financial Managers
- Budget Analysts
- Credit Analysts
- Financial Analysts
- Personal Financial Advisors
- Loan Officers
- Financial Specialists, All Other
- Business Teachers, Postsecondary
Finance, B.S.

Requirements

The Bachelor degree in finance at WSB prepares graduates for careers in the financial services industry. Students learn basic financial theory as well as specialized courses in financial management of corporate and business organizations, analysis of investment alternatives, and other more sophisticated finance related activities. Graduates go into banking, brokerages, become financial managers, and perform a variety of other financial services functions. Students with language skills may take an appropriate number of courses to obtain a Bachelor of Arts degree.

Total Program Credits: 120

| General Education Requirements: | 36 Credits |
| ENGL 1010 | Introduction to Writing | 3 |
| ENGL 2010 | Intermediate Writing--Humanities/Social Sciences | 3 |
| or ENGL 2020 | Intermediate Writing--Science and Technology (3.0) | |
| MATH 1050 | College Algebra | 4 |
| Complete one of the following: | 3 |
| HIST 2700 | US History to 1877 (3.0) | |
| and HIST 2710 | US History since 1877 (3.0) | |
| HIST 1700 | American Civilization (3.0) | |
| HIST 1740 | US Economic History (3.0) | |
| POLS 1000 | American Heritage (3.0) | |
| POLS 1100 | American National Government (3.0) | |
| Complete the following: | |
| PHIL 2050 | Ethics and Values | 3 |
| HLTH 1100 | Personal Health and Wellness (2.0) | |
| PES 1097 | Fitness for Life | 2 |
| Distribution Courses: | |
| ECON 2020 | Macroeconomics | 3 |
| Biology | 3 |
| Physical Science | 3 |
| Additional Biology or Physical Science | 3 |
| Humanities Distribution | 3 |
| Fine Arts Distribution | 3 |
| Discipline Core Requirements: | 74 Credits |
| Business Foundation Courses: | |
| ACC 2010 | Financial Accounting | 3 |
| ACC 2020 | Managerial Accounting | 3 |
| Business Computer Proficiency Exam | |
| or IM 2010 | Business Computer Proficiency (3.0) * | |
| ECON 2010 | Microeconomics | 3 |
| MATH 1100 | Introduction to Calculus | 3 |
| or MGMT 2240 | Business Quantitative Analysis (3.0) | |
| MKTG 2200 | Written Business Communication | 3 |
| MGMT 2340 | Business Statistics I | 3 |
| Business Core Courses: | |
| FIN 3100 | Principles of Finance | 3 |
| FIN 3101 | Business Law | 3 |
| INFO 3120 | Management Information Systems | 3 |
| MKTG 3600 | Principles of Marketing | 3 |
| MGMT 3000 | Organizational Behavior | 3 |
| MGMT 3450 | Operations Management | 3 |
| ECON 305G | International Economics | 3 |
| or MGMT 332G | Cross-Cultural Communications for International Business (3.0) | |
| or MGMT 330G | Survey of International Business (3.0) | |
| MGMT 495R | Executive Lecture Series | 1 |
| or MGMT 493R | Entrepreneurship Lecture Series (1.0) | |
| Finance Core Requirements: | |
| ECON 3010 | Intermediate Microeconomics (3.0) | |
| or ECON 3020 | Managerial Economics | 3 |
| ECON 3340 | Managerial Microeconomics | 3 |
| FIN 3150 | Financial Management | 3 |
| FIN 3400 | Investment Management | 3 |
| FIN 4100 | Management of Financial Institutions | 3 |
| MGMT 4860 | Business Strategy Formulation and Implementation | 4 |
| Finance Elective Requirements: | |
| Choose 15 credits from any 3000 or 4000 level ACC, ECON, or FIN course not already taken in consultation with an appropriate faculty or an advisor. | 15 |
| Elective Requirements: | |
| Complete 10 credits of any courses 1000 or higher | 10 Credits |

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until advanced standing status is completed.

Footnote

* Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

Finance, B.S.

Careers

Careers:

Financial managers, investment sales and analysis, securities brokers, banking, corporate financial management, wealth and asset managers.

Related Careers

• Chief Executives
• General and Operations Managers
Personal Financial Planning, B.S.

Requirements

The WSB Bachelor of Science in Personal Financial Planning (PFP) prepares graduates with the courses necessary to meet educational requirements to sit for the Certified Financial Planning Board of Standards, Inc. accreditation process. It is intended to prepare students to become fee-for-service professional planners with strong ethical standards who work with families and individuals developing specific budget, asset management, and related planning processes.

Total Program Credits: 120

General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing—Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing—Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
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</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>or HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
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Complete the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
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</table>

Distribution Courses: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2020</td>
<td>Macroeconomics (Fulfills Social/Behavioral Science credit)</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td></td>
<td>3</td>
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</tbody>
</table>

Discipline Core Requirements: 84 Credits

Business Foundation Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 2010</td>
<td>Financial Accounting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ACC 2020</td>
<td>Managerial Accounting (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Business Computer Proficiency Exam:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IM 2010</td>
<td>Business Computer Proficiency (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1010</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>
* Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

** If MGMT 2240 is taken, an additional 1 credit of elective may be required. See Advisor.

**Personal Financial Planning, B.S.**

**Careers**

- Fee-for-service planners, investment sales and service, financial counselors, wealth and asset managers, human resources benefits managers, and a variety of other financial services specialists.

**Related Careers**

- Personal Financial Advisors
- Credit Counselors
- Business Teachers, Postsecondary
- Securities, Commodities, and Financial Services Sales Agents
General Business

Name: Woodbury School of Business
Location: WB 128
Telephone: 801-863-8260
Email: woodbury@uvu.edu
Web Address: www.uvu.edu/woodbury/
Dean: Norman S. Wright

Mission Statement
Through exceptional business education, we help student become successful professionals who build our community.

Core Themes - (University Alignment: Student Success, Engagement, Inclusivity, and Seriousness)
1. Delta: maximize student improvement through engaged learning (E)
2. Placement: help students obtain and succeed in careers aligned with their goals (SS)
3. Scholarship: produce and promote research that improves business education and practice (S)
4. Reach: serve as many people in our community as we can (I)

Woodbury School of Business

Dean: Dr. Norman S. Wright
  • Office: WB 128b
  • Telephone: 801-863-8260
  • Email: Norman.Wright@uvu.edu
  • Fax: 801-863-7314

Administrative Support: Dixie Maughan
  • Office: WB 128
  • Telephone: 801-863-8260
  • Email: dmaughan@uvu.edu
  • Fax: 801-863-7314

Associate Dean: Dr. Jacob Sybrowsky
  • Office: WB 219
  • Telephone: 801-863-6458
  • Email: Jacob.sybrowsky@uvu.edu
  • Fax: 801-863-7314

Assistant Deans:
Lynn Adams
  • Office: WB 218
  • Telephone: 801-863-6483
  • Email: Adamsly@uvu.edu
  • Fax: 801-863-7314

Mikki O’Connor
  • Office: WB 128a
  • Telephone: 801-863-8850
  • Email: oconomi@uvu.edu
  • Fax: 801-863-7314

Accreditation
The Woodbury School of Business was reaccredited with the Association to Advance Collegiate Schools (AACSB) Accreditation in fall 2011. AACSB International Business accreditation is an achievement earned only by programs of the highest caliber.

Institutions that earn accreditation confirm their commitment to quality and continuous improvement through a rigorous and comprehensive peer review.

Admission
Students choosing to pursue majors in the Woodbury School of Business should decide early, plan their schedules carefully, be aware of all the requirements, and stay informed about any changes by checking often with advisors in the Woodbury School of Business Advisement Center.

Accessibility to Courses
All 1000- and 2000-level business courses are open to all UVU students along with selected 3000- and 4000-level courses. Some courses have prerequisites, which must be satisfied. No more than 9 credits of upper-division courses can be taken before a student has been formally matriculated into the UVU Woodbury School of Business.

Repeating Failed Foundation Core Courses
Each business major has foundation core courses. A student will be allowed to repeat a failed foundation core course only twice. If the foundation core course is not passed with a minimum grade of "C-" after the third retake, the student will not be allowed to apply for advanced standing (matriculation) toward a degree in one of the Woodbury School of Business majors.

Business Computer Proficiency Exam
Most of the degrees offered in the Woodbury School of Business require the student to demonstrate business computer proficiency. Students pursuing most bachelor degrees must complete this proficiency requirement before they can be matriculated. This proficiency can be attained by completing the Business Computer Proficiency exam with a score of 80 percent or higher or completing DGM 2010 with a score of 80 percent or higher. The prerequisite for DGM 2010 is DGM 1010. The test for DGM 1010 is available at the testing center.

Degree Requirements
See the individual departmental sections in the catalog that follow this Woodbury School of Business section for specific requirements on each degree offered by the individual departments.

The Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah, or it can be completed by students seeking a BS degree at UVU.

Advisement Center
The Woodbury School of Business Advisement Center provides one-on-one advising throughout a student’s program. Information regarding transfer programs is readily available by contacting departmental advisors in WB 257 of the Woodbury Business Building. Each student should make an appointment to see a Woodbury School of Business advisor early in his/her first semester on campus.

Advisors:
Diana Johnson
  • Office: WB 257f
  • Telephone: 801-863-8322
  • Email: johnsedi@uvu.edu

Mignon Nicol
  • Office: WB 257g
  • Telephone: 801-863-8749
  • Email: nicolmi@uvu.edu

Polly Clauson
  • Office: WB 257b
  • Telephone: 801-863-6482
  • Email: Polly.Clauson@uvu.edu
Course Descriptions

Accounting ........................................................................................................... 515
Economics ........................................................................................................... 600
Finance ............................................................................................................... 637
Legal Studies ...................................................................................................... 671
Business Management ......................................................................................... 680
Marketing ............................................................................................................ 686

Degrees & Programs

Associate in Science in Business, A.S.B.

Requirements

An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah.

Total Program Credits: 61

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following:

- MATH 1050 College Algebra 4
- An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

Complete one of the following: 3

- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

PHIL 2050 Ethics and Values 3
HLTH 1100 Personal Health and Wellness (2.0)
or PES 1097 Fitness for Life 2

Distribution Courses:

- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Behavioral/Social Science Distribution 3
- Humanities Distribution 3
- Fine Arts Distribution 3

Discipline Core Requirements: 25 Credits

- ACC 2010 Financial Accounting 3
- ACC 2020 Managerial Accounting 3
- MATH 1100 Introduction to Calculus 4
- MKTG 2200 Written Business Communication 3
- ECON 2020 Macroeconomics 3
- ECON 2010 Microeconomics 3
- LEGL 3000 Business Law 3
- MGMT 2340 Business Statistics I 3
- or MATH 2040 Principles of Statistics (4.0)

Complete one of the following:

- Business Computer Proficiency Exam *
or IM 2010 Business Computer Proficiency (3.0)

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 or above with 2.5 GPA or above in Business courses. No grade below C- in business courses.
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU with at least 12 credits of School of Business courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Notes: See information on the back of the program card for additional specialized general education/major requirements for individual transfer schools (some requirements for other schools cannot be taken at UVU).

Associate in Science in Business, A.S.B.

Careers

Many opportunities exist for those trained in business management in private industry, government, and through entrepreneurship. Possible jobs in domestic and international businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas and the employment outlook is excellent.

Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
General Business

• Social and Community Service Managers
• Managers, All Other
• Cost Estimators
• Management Analysts
• Business Teachers, Postsecondary
History and Political Science

**Mission Statement**

In keeping with the University's mission, the History and Political Science department is dedicated to providing students with a broad range of opportunities in general-education and discipline-specific courses. Our faculty members are committed to quality teaching, mentoring, and research. In an environment of discussion-based classroom experience and independent research opportunities, students develop analytical abilities, communication skills, and history and political science research methods. The History and Political Science department continually strives to provide a reflective, multicultural, and international perspective for students to actively engage in.

**Course Descriptions**

American Indian Studies................................................................. 518
Constitutional Studies........................................................................ 564
History.................................................................................................. 649
Political Science.................................................................................. 712
Social Science...................................................................................... 726

**Degrees & Programs**

History and Political Science, A.A.

**Requirements**

UVU’s History Program is dedicated to developing the twenty-first century student. We provide the general student body a broad range of courses that increase global awareness, engagement and informed citizenship, as well as develop critical thinking, writing, and oral expression. In addition, History majors can choose from a large number of in-depth upper division courses that further their content knowledge and expand their abilities to critically analyze past and current events in a variety of regions and nations. In all courses, students and faculty observe the human experience by investigating the diverse historical perspectives of the past and present. History faculty endeavor to teach in ways that foster independent thinking, engage the students with historical conversations and debates, and improve students’ ability to communicate in a variety of media. Students who successfully complete our programs will have a valuable set of skills for further study in graduate and professional programs, and careers in public service or private enterprise.

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the “queen of the sciences.” It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow’s public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 62
**History and Political Science, A.A.**

**Careers:**
- Archeologist
- Archivist
- Research Assistant

---

**Graduation Requirements:**
1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

**History and Political Science, A.A.**

**Careers:**
- Genealogist
- Government Official
- Historian
- Historic Preservationist
- Historic Site Tour Guide
- Historical Society Staff
- Teacher, History & Social Studies
- Librarian
- Museum Curator
- Museum Specialist
- Peace Corps
- Writer/Author

Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

**Related Careers**
- Managers, All Other
- Historians
- History Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

**History and Political Science, A.S.**

**Requirements**
UVU’s History Program is dedicated to developing the twenty-first century student. We provide the general student body a broad range of courses that increase global awareness, engagement and informed citizenship, as well as develop critical thinking, writing, and oral expression. In addition, History majors can choose from a large number of in-depth upper division courses that further their content knowledge and expand their abilities to critically analyze past and current events in a variety of regions and nations. In all courses, students and faculty observe the human experience by investigating the diverse historical perspectives of the past and present. History faculty endeavor to teach in ways that foster independent thinking, engage the students with historical conversations and debates, and improve students’ ability to communicate in a variety of media. Students who successfully complete our programs will have a valuable set of skills for further study in graduate and professional programs, and careers in public service or private enterprise.

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**Total Program Credits: 62**

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
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<td>ENGL 2010 Intermediate Writing—Humanities/Social Sciences</td>
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</table>
or

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<tr>
<th>Course code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>(3.0)</td>
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Complete one of the following: 3

<table>
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<tr>
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<th>Course title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)</td>
<td>(3.0)</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0) (recommended for Social Science majors)</td>
<td>(3.0)</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)</td>
<td>(4.0)</td>
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</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td>(3.0)</td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td>(3.0)</td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td>(3.0)</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td>(3.0)</td>
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</tbody>
</table>

Complete the following:

<table>
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<tr>
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<th>Course title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>(3.0)</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>(2.0)</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course code</th>
<th>Course title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
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<td></td>
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</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 16 Credits

Complete 16 Credits from any ARCH, ECON, GEOG, HIST, or POLS courses.

Elective Requirements: 11 Credits

Complete any course numbered 1000 or higher

Graduation Requirements:

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours — minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

History and Political Science, A.S.

Careers

<table>
<thead>
<tr>
<th>Career</th>
</tr>
</thead>
<tbody>
<tr>
<td>Archeologist</td>
</tr>
<tr>
<td>Archivist</td>
</tr>
<tr>
<td>Research Assistant</td>
</tr>
<tr>
<td>Genealogist</td>
</tr>
<tr>
<td>Government Official</td>
</tr>
<tr>
<td>Historian</td>
</tr>
</tbody>
</table>

Historic Preservationist
Historic Site Tour Guide
Historical Society Staff
Teacher, History & Social Studies
Librarian
Museum Curator
Museum Specialist
Peace Corps
Writer/Author

Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Historians
- History Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Constitutional Studies, Minor

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the “queen of the sciences.” It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow’s public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 21

Matriculation Requirements:

To be admitted into the program, students must:

1. Possess a 3.0 grade point average
2. Complete 30 credit hours
3. Complete POLS 1000 American Heritage or POLS 1100 American National Government

Discipline Core Requirements: 12 Credits

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 3250</td>
<td>Introduction to Law and Politics</td>
<td>(3.0)</td>
</tr>
<tr>
<td>or LEGL 3250</td>
<td>Introduction to Law and Politics</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 4720</td>
<td>Foundations of American Constitutionalism</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 4790</td>
<td>US Constitution</td>
<td>(3.0)</td>
</tr>
<tr>
<td>CNST 4795</td>
<td>Civil Rights and Civil Liberties</td>
<td>(3.0)</td>
</tr>
</tbody>
</table>

Elective Requirements: 9 Credits

Complete three of the following courses for 9 credits:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1020</td>
<td>Political Ideologies (3.0)</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 3300</td>
<td>Introduction to Public Administration (3.0)</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 4610</td>
<td>International Law and Relations (3.0)</td>
<td>(3.0)</td>
</tr>
<tr>
<td>ECON 4500</td>
<td>US Economic Development and History (3.0)</td>
<td>(3.0)</td>
</tr>
</tbody>
</table>
History and Political Science

HIST 3870  Constitutional History to Plessy 1896 (3.0)
HIST 3880  Constitutional History since Plessy 1896 (3.0)
HIST 3320  Modern Britain (3.0)
LEGL 4190  Constitutional Law (3.0)
CJ 4160  Constitutional Criminal Rights (3.0)
CNST 4730  Framing of the US Constitution (3.0)
CNST 2600  Comparative Constitutionalism (3.0)
or any other Coordinator or Chair approved courses.

Constitutional Studies, Minor

Careers:
Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers
• Managers, All Other
• Political Scientists
• Political Science Teachers, Postsecondary

History, Minor

Requirements
UVU's History Program is dedicated to developing the twenty-first century student. We provide the general student body a broad range of courses that increase global awareness, engagement and informed citizenship, as well as develop critical thinking, writing, and oral expression. In addition, History majors can choose from a large number of in-depth upper division courses that further their content knowledge and expand their abilities to critically analyze past and current events in a variety of regions and nations. In all courses, students and faculty observe the human experience by investigating the diverse historical perspectives of the past and present. History faculty endeavor to teach in ways that foster independent thinking, engage the students with historical conversations and debates, and improve students' ability to communicate in a variety of media. Students who successfully complete our programs will have a valuable set of skills for further study in graduate and professional programs, and careers in public service or private enterprise.

Total Program Credits: 21

Matriculation Requirements:
1. Successful completion of one history course at UVU.
2. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements:
HIST 1500  World History to 1500  3
HIST 151G  World History from 1500 to the Present  3
HIST 2700  US History to 1877  3
HIST 2710  US History since 1877  3

Elective Requirements:
Any three upper division history courses except HIST 4860 and HIST 4990.  9

Graduation Requirements:
1. Complete all history courses with a grade of "C-" or better.

History, Minor

Careers
Careers:
Archeologist
Archivist
Research Assistant
Genealogist
Government Official
Historian
Historic Preservationist
Historic Site Tour Guide
Historical Society Staff
Teacher, History & Social Studies
Librarian
Museum Curator
Museum Specialist
Peace Corps
Writer / Author

Related Careers
• Managers, All Other
• Historians
• History Teachers, Postsecondary
• Secondary School Teachers, Except Special and Career/Technical Education

Political Science, Minor

Requirements
Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 21

Matriculation Requirements:
1. Completion of POLS 1010, Introduction to Political Science; or POLS 1100, American National Government.
2. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements:
Complete THREE of the following:
POLS 1020  Political Ideologies (3.0)
POLS 2100  Introduction to International Relations (3.0)
POLS 2200  Introduction to Comparative Politics (3.0)
POLS 230G  Introduction to Political Theory (3.0)
POLS 3120  Political Parties (3.0)
POLS 3300  Introduction to Public Administration (3.0)

Complete TWO of the following:
POLS 3030  State and Local Government (3.0)
History and Political Science

**Course Catalog 2015-2016**

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
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<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
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<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
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</table>

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1000 American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1001 American Heritage</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100 American National Government</td>
<td>3</td>
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</tbody>
</table>

**Complete the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life</td>
<td>2</td>
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**Distribution Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
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<tr>
<td>Physical Science</td>
<td>3</td>
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<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2510 American Literature before 1865</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2520 American Literature after 1865</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2610 British Literature before 1800</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2620 British Literature after 1800</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1010 Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>or POLS 2200 Introduction to Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>or POLS 2100 Introduction to International Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

**History Education, B.S.**

**Requirements**

UVU’s History Program is dedicated to developing the twenty-first century student. We provide the general student body a broad range of courses that increase global awareness, engagement, and informed citizenship, as well as develop critical thinking, writing, and oral expression. In addition, History majors can choose from a large number of in-depth upper division courses that further their content knowledge and expand their abilities to critically analyze past and current events in a variety of regions and nations. In all courses, students and faculty observe the human experience by investigating the diverse historical perspectives of the past and present. History faculty endeavor to teach in ways that foster independent thinking, engage the students with historical conversations and debates, and improve students’ ability to communicate in a variety of media. Students who successfully complete our programs will have a valuable set of skills for further study in graduate and professional programs, and careers in public service or private enterprise.

**Total Program Credits: 122**

**Graduation Requirements:**

1. Complete all political science courses with a grade of "C-" or better.

**Political Science, Minor**

**Careers**

Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

**Related Careers**

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

**Distribution Courses:**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Biology</td>
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<td>3</td>
</tr>
<tr>
<td>POLS 1010 Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>or POLS 2200 Introduction to Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>or POLS 2100 Introduction to International Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Matriculation Requirements:**

1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass Live Scan Criminal Background Check.

**Political Science, Minor**

**Careers**

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**Related Careers**

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

**History Education, B.S.**

**Requirements**

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**Total Program Credits: 122**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>GEOG 1300 Survey of World Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740 US Economic History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1500 World History to1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 151G World History from 1500 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700 US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2710 US History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3260 History of Utah</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4250 Teaching History in the Secondary Curriculum</td>
<td>3</td>
</tr>
</tbody>
</table>
Choose 3 credits from any advisor approved upper division course.

Professional Education Courses

3
EDSC 3000 Educational Psychology
3
EDSC 3050 Foundations of American Education
2
EDSC 3250 Instructional Media
2
EDSC 4200 Classroom Management I
2
EDSC 4250 Classroom Management II
2
EDSC 4440 Content Area Literacies
3
EDSC 445G Multicultural Instruction ESL
3
EDSC 4550 Secondary Curriculum Instruction and Assessment
3
EDSC 4850 Student Teaching--Secondary
10
EDSP 3400 Exceptional Students
2

Choose one course from each of the following five AREAS OF STUDY*:

United States*

HIST 320G Women in American History to 1870 (3.0)
HIST 321G Women in American History since 1870 (3.0)
HIST 322G History of the American West to 1850 (3.0)
HIST 323G History of the American West since 1850 (3.0)
HIST 327G Indians of Utah (3.0)
HIST 3520 The United States and Vietnam--1945 to Present (3.0)
HIST 3730 American Origins to 1790 (3.0)
HIST 3731 United States History 1790-1890 (3.0)
HIST 3732 United States History 1890-1945 (3.0)
HIST 3733 United States since 1945 (3.0)
HIST 3740 American Revolution (3.0)
HIST 3745 Civil War and Reconstruction (3.0)
HIST 3800 Environmental History of the United States (3.0)
HIST 381G Precolumbian America (3.0)
HIST 383G Indians of the Great Plains (3.0)
HIST 385G The Struggle for Self-determination--American Indians 1891 to present (3.0)
HIST 3870 Constitutional History to Plessy 1896 (3.0)
HIST 3880 Constitutional History since Plessy 1896 (3.0)
AIST 4600 Contemporary American Indian Political and Social Issues (3.0)
HIST 463G Missions and Conversion in Early North America (3.0)
HIST 466G Legacies and Reckonings in the American West (3.0)
HIST 471R Special Issues and Topics in American History (3.0)

Latin America*

HIST 204G Colonial Latin America (3.0)
HIST 205G Modern Latin America (3.0)
HIST 430G Violence and Social Conflict in Latin America (3.0)

Europe/Russia*

HIST 3110 Greek History (3.0)
HIST 3130 Roman Republic (3.0)
HIST 3140 Roman Empire (3.0)
HIST 3150 Medieval Europe (3.0)
HIST 3160 Renaissance and Reformation--Europe 1350 to 1600 (3.0)
HIST 3170 Absolutism Enlightenment and Revolution--Europe from 1600 to 1815 (3.0)
HIST 3180 Nineteenth Century Europe (3.0)
HIST 3190 Twentieth Century Europe (3.0)
HIST 3320 Modern Britain (3.0)
HIST 366G The History of Modern Russia--1864 to Present (3.0)
HIST 4170 The USSR Under Stalin (3.0)

Comparative/Topical*

HIST 3440 The History of World War I (3.0)
HIST 345G The History of World War II (3.0)
HIST 367G History of Russian Film (3.0)
HIST 4100 Jewish History (3.0)
HIST 420R Issues and Topics in Global History (3.0)
HIST 4130 Anti-Semitism and the Holocaust (3.0)
HIST 4320 History of Scientific Thought (3.0)
HIST 4330 Machines in the Making of History (3.0)
HIST 435R Issues and Topics in the History of Science (3.0)
HIST 461G Peoples of the Atlantic World 1450-1800 (3.0)

Elective Requirements:

Any courses numbered 1000 or higher. 12 Credits

Graduation Requirements:

1. Completion of a minimum of 122 semester credits.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

History Education, B.S.

Careers

Teach History/Social Studies in Middle School and High School.
Archivist
Research Assistant
Genealogist
History, B.A.

Requirements

UVU’s History Program is dedicated to developing the twenty-first century student. We provide the general student body a broad range of courses that increase global awareness, engagement and informed citizenship, as well as develop critical thinking, writing, and oral expression. In addition, History majors can choose from a large number of in-depth upper division courses that further their content knowledge and expand their abilities to critically analyze past and current events in a variety of regions and nations. In all courses, students and faculty observe the human experience by investigating the diverse historical perspectives of the past and present. History faculty endeavor to teach in ways that foster independent thinking, engage the students with historical conversations and debates, and improve students’ ability to communicate in a variety of media. Students who successfully complete our programs will have a valuable set of skills for further study in graduate and professional programs, and careers in public service or private enterprise.

Total Program Credits: 120

<table>
<thead>
<tr>
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<tbody>
<tr>
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<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following: 3

- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values (3.0)
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life (2.0)

Distribution Courses:

- Biology (3.0)
- Physical Science (3.0)

Table:

<table>
<thead>
<tr>
<th>Area of Study</th>
<th>Course Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. European History</td>
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</tr>
<tr>
<td>HIST 3100 Greek History (3.0)</td>
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<tr>
<td>HIST 3130 Roman Republic (3.0)</td>
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<tr>
<td>HIST 3140 Roman Empire (3.0)</td>
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<tr>
<td>HIST 3150 Medieval Europe (3.0)</td>
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<tr>
<td>HIST 3160 Renaissance and Reformation--Europe 1350 to 1600 (3.0)</td>
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<tr>
<td>HIST 3170 Absolutism and Enlightenment and Revolution--Europe from 1600 to 1815 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 3180 Nineteenth Century Europe (3.0)</td>
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<tr>
<td>HIST 3190 Twentieth Century Europe (3.0)</td>
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<td>HIST 366G The History of Modern Russia--1864 to Present (3.0)</td>
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<tr>
<td>HIST 4170 The USSR Under Stalin (3.0)</td>
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<tr>
<td>B. United States History</td>
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<tr>
<td>HIST 320G Women in American History to 1870 (3.0)</td>
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<tr>
<td>HIST 321G Women in American History since 1870 (3.0)</td>
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<tr>
<td>HIST 322G History of the American West to 1850 (3.0)</td>
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</tr>
<tr>
<td>HIST 323G History of the American West since 1850 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 3260 History of Utah (3.0)</td>
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<tr>
<td>HIST 327G Indians of Utah (3.0)</td>
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<tr>
<td>HIST 3460 US Military History (3.0)</td>
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<tr>
<td>HIST 3520 The United States and Vietnam--1945 to Present (3.0)</td>
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<tr>
<td>HIST 3730 American Origins to 1790 (3.0)</td>
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<td>HIST 3731 United States History 1790-1890 (3.0)</td>
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<td>HIST 3732 United States History 1890-1945 (3.0)</td>
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<tr>
<td>HIST 3733 United States since 1945 (3.0)</td>
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<tr>
<td>HIST 3740 American Revolution (3.0)</td>
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<tr>
<td>HIST 3745 Civil War and Reconstruction (3.0)</td>
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<tr>
<td>HIST 3800 Environmental History of the United States (3.0)</td>
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### History and Political Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HIST 381G</td>
<td>Pre-Columbian America (3.0)</td>
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<tr>
<td>HIST 382G</td>
<td>Indians of Eastern North America (3.0)</td>
</tr>
<tr>
<td>HIST 383G</td>
<td>Indians of the Great Plains (3.0)</td>
</tr>
<tr>
<td>HIST 384G</td>
<td>Indians of the Southwest (3.0)</td>
</tr>
<tr>
<td>HIST 385G</td>
<td>The Struggle for Self-determination—American Indians 1891 to present (3.0)</td>
</tr>
<tr>
<td>HIST 3870</td>
<td>Constitutional History to Plessy 1896 (3.0)</td>
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<tr>
<td>HIST 3880</td>
<td>Constitutional History since Plessy 1896 (3.0)</td>
</tr>
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<td>AIST 4600</td>
<td>Contemporary American Indian Political and Social Issues (3.0)</td>
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<tr>
<td>HIST 463G</td>
<td>Missions and Conversion in Early North America (3.0)</td>
</tr>
<tr>
<td>HIST 466G</td>
<td>Legacies and Reckonings in the American West (3.0)</td>
</tr>
<tr>
<td>C. World History (3)</td>
<td></td>
</tr>
<tr>
<td>HIST 204G</td>
<td>Colonial Latin America (3.0)</td>
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<tr>
<td>HIST 205G</td>
<td>Modern Latin America (3.0)</td>
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<tr>
<td>HIST 3020</td>
<td>Introduction to Public History (3.0)</td>
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<tr>
<td>HIST 3030</td>
<td>Introduction to African History (3.0)</td>
</tr>
<tr>
<td>HIST 3530</td>
<td>History of Vietnam (3.0)</td>
</tr>
<tr>
<td>HIST 3540</td>
<td>History of South Africa (3.0)</td>
</tr>
<tr>
<td>HIST 430G</td>
<td>Violence and Social Conflict in Latin America (3.0)</td>
</tr>
<tr>
<td>HIST 461G</td>
<td>Peoples of the Atlantic World 1450-1800 (3.0)</td>
</tr>
<tr>
<td>D. Special Topics (3.0)</td>
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</tr>
<tr>
<td>HIST 3440</td>
<td>The History of World War I (3.0)</td>
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<tr>
<td>HIST 345G</td>
<td>The History of World War II (3.0)</td>
</tr>
<tr>
<td>HIST 3550</td>
<td>Memory and History (3.0)</td>
</tr>
<tr>
<td>HIST 400R</td>
<td>History Practicum (3.0)</td>
</tr>
<tr>
<td>HIST 4100</td>
<td>Jewish History (3.0)</td>
</tr>
<tr>
<td>HIST 4130</td>
<td>Anti-Semitism and the Holocaust (3.0)</td>
</tr>
<tr>
<td>HIST 4140</td>
<td>Genocide in the Twentieth Century (3.0)</td>
</tr>
<tr>
<td>HIST 420R</td>
<td>Issues and Topics in Global History (3.0)</td>
</tr>
<tr>
<td>HIST 4320</td>
<td>History of Scientific Thought (3.0)</td>
</tr>
<tr>
<td>HIST 4330</td>
<td>Machines in the Making of History (3.0)</td>
</tr>
<tr>
<td>HIST 435R</td>
<td>Issues and Topics in the History of Science (3.0)</td>
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<tr>
<td>HIST 471R</td>
<td>Special Issues and Topics in American History (3.0)</td>
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<tr>
<td>HIST 482R</td>
<td>Public History Internship (2.0)</td>
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<tr>
<td>HIST 490R</td>
<td>Independent Study (1.0)</td>
</tr>
<tr>
<td>HIST 491R</td>
<td>Directed Readings (2.0)</td>
</tr>
</tbody>
</table>

**Elective Requirements:** 39 Credits

- Any courses numbered 1000 or higher (15 credits must be upper division). 27
- Complete additional 12 hours of one Foreign Language. 12

**Graduation Requirements:**

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.

2. Minimum UVU GPA of 2.0 upon graduation, with no HIST course grade below a C-.
3. Completion of four semesters of one foreign language.
4. Complete one of the two tracks in the Areas of Study requirements.
5. Comply with the catalog’s rule on maximum number of years in the program.
6. Minimum of 30 credits must be taken at UVU (at least 10 of which must be part of the final 45 credits earned).
7. Successful completion of at least one Global/Intercultural course.

**NOTES:** Students should frequently consult with his/her advisor on program requirements.

### History, B.A. Careers

**Careers:**

- Archeologist
- Archivist
- Research Assistant
- Genealogist
- Government Official
- Historian
- Historic Preservationist
- Historic Site Tour Guide
- Historical Society Staff
- Teacher, History & Social Studies
- Librarian
- Museum Curator
- Museum Specialist
- Peace Corps
- Writer / Author

### Related Careers

- Managers, All Other
- Historians
- History Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

### Political Science - American Government Emphasis, B.A. Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the “queen of the sciences.” It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow’s public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

**Total Program Credits: 120**

**General Education Requirements:** 36 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Prerequisite Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

342 Course Catalog 2015-2016 Utah Valley University
Complete one of the following:

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<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
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</tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and</td>
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<td>US Economic History (3.0)</td>
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</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
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<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
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<td>or</td>
<td>PES 1097</td>
<td>Fitness for Life</td>
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Distribution Courses:

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<tbody>
<tr>
<td>Biology</td>
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<tr>
<td>Physical Science</td>
<td></td>
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</tr>
<tr>
<td>Additional Biology or Physical Science</td>
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<td>3</td>
</tr>
<tr>
<td>Humanities (fulfilled by completing any foreign language 202G/2020 course)</td>
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<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td></td>
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Discipline Core Requirements: 24 Credits

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<td>Political Ideologies</td>
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<td>American National Government</td>
<td>3</td>
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<td>Introduction to International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POLS 2200</td>
<td>Introduction to Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 3000</td>
<td>Political Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POLS 3300</td>
<td>Introduction to Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>POLS 4990</td>
<td>Senior Seminar (3.0)</td>
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<tr>
<td>or</td>
<td>POLS 480R</td>
<td>Internship (2.0)</td>
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Elective Requirements: 42 Credits

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<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Complete the 1010, 1020, and 2010 courses from one foreign language</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Complete courses numbered 1000 or higher (at least 16 credits must be upper-division)</td>
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Emphasis Requirements: 18 Credits

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>POLS 3030</td>
<td>State and Local Government (3.0)</td>
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</tr>
<tr>
<td>POLS 3150</td>
<td>US Presidency (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3180</td>
<td>Public Opinion and Political Behavior (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3200</td>
<td>US Congress (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3250</td>
<td>Introduction to Law and Politics (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3300</td>
<td>Introduction to Public Administration (3.0)</td>
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</tr>
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POLS 420R    | Issues and Topics in Political Science (3.0) |         |

POLS 4720    | Foundations of American Constitutionalism (3.0) |         |

POLS 4790    | US Constitution (3.0)                |         |

POLS 480R    | Internship (2.0)                     |         |

POLS 490R    | Independent Study (1.0)              |         |

HIST 3870    | Constitutional History to Plessy 1896 (3.0) |         |

HIST 3880    | Constitutional History since Plessy 1896 (3.0) |         |

AIST 4600    | Contemporary American Indian Political and Social Issues (3.0) |         |

PHIL 3530    | Environmental Ethics (3.0)           |         |

PHIL 3700    | Social and Political Philosophy (3.0) |         |

SOC 320G     | Race and Minority Relations (3.0)    |         |

SOC 3460     | Political Sociology (3.0)            |         |

**Graduation Requirements:**

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade lower than a C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Successful completion of at least one Global/Intercultural course.

**Political Science - American Government Emphasis, B.A.**

**Careers:**

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

**Related Careers**

- Political Science Teachers, Postsecondary

**Political Science - American Government Emphasis, B.S.**

**Requirements**

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow’s public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

**Total Program Credits: 120**
General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing (3)
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3)
  or ENGL 2020 Intermediate Writing--Science and Technology (3)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4)

Complete one of the following: 3
- HIST 1700 American Civilization (3)
- HIST 2700 US History to 1877 (3)

and
- HIST 2710 US History since 1877 (3)
- HIST 1740 US Economic History (3)
- POLS 1000 American Heritage (3)

Complete the following: 3
- PHIL 2050 Ethics and Values (3)
- HLTH 1100 Personal Health and Wellness (2)
  or PES 1097 Fitness for Life (2)

Distribution Courses:
- Biology (3)
- Physical Science (3)
- Additional Biology or Physical Science (3)
- Humanities (3)
- Fine Arts (3)
- Social/Behavioral Science (3)

Discipline Core Requirements: 39 Credits

- POLS 1010 Introduction to Political Science (3)
- POLS 1020 Political Ideologies (3)
- POLS 1100 American National Government (3)
- POLS 2100 Introduction to International Relations (3)
- POLS 2200 Introduction to Comparative Politics (3)
- POLS 3000 Political Analysis (3)
- POLS 3300 Introduction to Public Administration (3)
  or POLS 4890 Senior Seminar (3)

Quantitative Requirement: Complete 15 credits from the following courses: 15

- MATH 1060 Trigonometry (3)
- MATH 1210 Calculus I (5)
- MATH 1220 Calculus II (5)
- MATH 2040 Principles of Statistics (4)
- ECON 2010 Microeconomics (3)
- ECON 2020 Macroeconomics (3)
- ECON 4150 Public Finance (3)

Elective Requirements: 27 Credits

- Complete courses numbered 1000 or higher (at least 16 credits must be upper-division) (27)

Emphasis Requirements: 18 Credits

Complete 18 credits from the following courses: 18

- POLS 3030 State and Local Government (3)
- POLS 3150 US Presidency (3)
- POLS 3180 Public Opinion and Political Behavior (3)
- POLS 3200 US Congress (3)
- POLS 3250 Introduction to Law and Politics (3)
- POLS 3300 Introduction to Public Administration (3)
- POLS 420R Issues and Topics in Political Science (3)
- POLS 4720 Foundations of American Constitutionalism (3)
- POLS 4790 US Constitution (3)
- POLS 480R Internship (2)
- POLS 490R Independent Study (1)
- HIST 3870 Constitutional History to Plessy 1896 (3)
- HIST 3880 Constitutional History since Plessy 1896 (3)
- AIST 4600 Contemporary American Indian Political and Social Issues (3)
- PHIL 3530 Environmental Ethics (3)
- PHIL 3700 Social and Political Philosophy (3)
- SOC 320G Race and Minority Relations (3)
- SOC 3460 Political Sociology (3)

Graduation Requirements:
1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade below C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
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Political Science - American Government Emphasis, B.S.

Careers:
Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels; policy analysis and lobbying for both nonprofit organizations and corporations; foreign service; campaign consulting; public opinion and marketing research; journalism; and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers
- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - Indian Affairs Administration Emphasis, B.A.

Requirements
Political science enjoys a central position among the social sciences. Aristotle characterized politics as the “queen of the sciences.” It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and
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<td>or ENGL 2020 Intermediate Writing—Science and Technology</td>
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<td>MATH 1030 Quantitative Reasoning (3.0)</td>
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</tr>
</tbody>
</table>

**Distribution Courses:**

- Biology (3)
- Physical Science (3)
- Additional Biology or Physical Science (3)
- Humanities (fulfilled by completing any foreign language 202G/2030 course) (4)
- Fine Arts (3)
- Social/Behavioral Science (3)

**Discipline Core Requirements:** 24 Credits

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<td>POLS 4990 Senior Seminar (3.0)</td>
<td></td>
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<tr>
<td>or POLS 480R Internship</td>
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</tbody>
</table>

**Elective Requirements:** 42 Credits

| Complete the 1010, 1020, and 2010 courses from one foreign language | 12 |
| Complete courses numbered 1000 or higher (at least 16 credits must be upper-division) | 30 |

**Emphasis Requirements:** 12 Credits

<table>
<thead>
<tr>
<th>Complete 6 credits from the following:</th>
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<tbody>
<tr>
<td>ANTH 3300 Development and Rural Societies (3.0)</td>
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<tr>
<td>ENGL 357G Native American Literature (3.0)</td>
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<td>HIST 327G Indians of Utah (3.0)</td>
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<td>HIST 383G Indians of the Great Plains (3.0)</td>
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<td>HIST 384G Indians of the Southwest (3.0)</td>
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<tr>
<td>HIST 385G The Struggle for Self-determination--American Indians 1891 to present (3.0)</td>
</tr>
<tr>
<td>AIST 490R Special Topics in American Indian Studies (3.0)</td>
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<tr>
<td>BESC 4030 Introduction to Practice Evaluation and Grant Writing (3.0)</td>
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**Graduation Requirements:**

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
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**Political Science - Indian Affairs Administration Emphasis, B.A.**

**Careers**

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Political Science - Indian Affairs Administration Emphasis, B.S.

Requirements

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<tr>
<th>Distribution Courses:</th>
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<tbody>
<tr>
<td>Biology</td>
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<tr>
<td>Physical Science</td>
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<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
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<tr>
<td>Humanities</td>
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<tr>
<td>Fine Arts</td>
<td>3</td>
</tr>
<tr>
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<thead>
<tr>
<th>Discipline Core Requirements:</th>
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</tr>
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<tbody>
<tr>
<td>POLS 1010 Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1020 Political Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100 American National Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS 2100 Introduction to International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POLS 2200 Introduction to Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 3000 Political Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POLS 3300 Introduction to Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>POLS 4990 Senior Seminar (3.0)</td>
<td></td>
</tr>
<tr>
<td>or POLS 480R Internship</td>
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<table>
<thead>
<tr>
<th>Quantitative Requirement: Complete 15 credits from the following courses:</th>
<th>15</th>
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<tbody>
<tr>
<td>MATH 1060 Trigonometry (3.0)</td>
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</tr>
<tr>
<td>MATH 1210 Calculus I (5.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1220 Calculus II (5.0)</td>
<td></td>
</tr>
<tr>
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<td>Complete courses numbered 1000 or higher (at least 16 credits must be upper-division)</td>
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<table>
<thead>
<tr>
<th>Emphasis Requirements:</th>
<th>12 Credits</th>
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<tbody>
<tr>
<td>HIST 180G Introduction to American Indian Studies (3.0)</td>
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<tr>
<td>or ANTH 180G Introduction to American Indian Studies (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>AIST 350G American Indian Health Policy (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 350G American Indian Law and Tribal Government (3.0)</td>
<td></td>
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<tr>
<td>AIST 4600 Contemporary American Indian Political and Social Issues (3.0)</td>
<td>3</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Emphasis Elective Requirements:</th>
<th>6 Credits</th>
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<tbody>
<tr>
<td>Complete 6 credits from the following:</td>
<td></td>
</tr>
<tr>
<td>ANTH 3300 Development and Rural Societies (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 350G Native American Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 327G Indians of Utah (3.0)</td>
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</tr>
<tr>
<td>HIST 335G Indians of the Great Plains (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 346G Indians of the Southwest (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 385G The Struggle for Self-determination–American Indians 1891 to present (3.0)</td>
<td></td>
</tr>
<tr>
<td>AIST 490R Special Topics in American Indian Studies (3.0)</td>
<td></td>
</tr>
<tr>
<td>BESC 4030 Introduction to Practice Evaluation and Grant Writing (3.0)</td>
<td></td>
</tr>
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Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade below C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Political Science - Indian Affairs Administration Emphasis, B.S.

Careers

Careers:

Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels; policy analysis and lobbying for both nonprofit organizations and corporations; foreign service; campaign consulting; public opinion and marketing research; journalism; and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.
Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - Political Philosophy/Public Law Emphasis, B.A.

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the “queen of the sciences.” It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow’s public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 120

- Elective Requirements: 42 Credits
  - Complete the 1010, 1020, and 2010 courses from one foreign language
  - Complete courses numbered 1000 or higher (at least 16 credits must be upper-division)

- Emphasis Requirements: 18 Credits
  - Complete 18 credits from the following:
    - POLS 230G Introduction to Political Theory (3.0)
    - POLS 3030 State and Local Government (3.0)
    - POLS 3180 Public Opinion and Political Behavior (3.0)
    - POLS 3200 US Congress (3.0)
    - POLS 3250 Introduction to Law and Politics (3.0)
    - POLS 3300 Introduction to Public Administration (3.0)
    - POLS 420R Issues and Topics in Political Science (3.0)
    - POLS 4720 Foundations of American Constitutionalism (3.0)
    - POLS 4790 US Constitution (3.0)
    - POLS 490R Independent Study (1.0)
    - HIST 3870 Constitutional History to Plessy 1896 (3.0)
    - HIST 3880 Constitutional History since Plessy 1896 (3.0)
    - PHIL 3150 Philosophical Issues in Feminism (3.0)
    - PHIL 3530 Environmental Ethics (3.0)
    - PHIL 3700 Social and Political Philosophy (3.0)
    - SOC 320G Race and Minority Relations (3.0)

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade lower than a C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
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Political Science - Political Philosophy/Public Law Emphasis, B.A.

Careers

Careers:

Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and
History and Political Science

Corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers
- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - Political Philosophy/Public Law Emphasis, B.S.

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Political science enjoys a central position among the social sciences. Aristotle characterized politics as the “queen of the sciences.” It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow’s public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 120

General Education Requirements: 36 Credits

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing—Humanities/Social Sciences</td>
<td>(3.0)</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing—Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (recommended for Business, Education, Science, and Health Professions majors)</td>
<td>4</td>
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Complete one of the following: 3

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<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
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</tbody>
</table>

and

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following:

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
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</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses:

- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Humanities 3
- Fine Arts 3
- Social/Behavioral Science 3

Discipline Core Requirements: 39 Credits

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1010</td>
<td>Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1020</td>
<td>Political Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>3</td>
</tr>
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</table>

Quantitative Requirement: Complete 15 credits from the following courses:

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1060</td>
<td>Trigonometry</td>
<td>(3.0)</td>
</tr>
<tr>
<td>MATH 1210</td>
<td>Calculus I</td>
<td>(5.0)</td>
</tr>
<tr>
<td>MATH 1220</td>
<td>Calculus II</td>
<td>(5.0)</td>
</tr>
<tr>
<td>MATH 2040</td>
<td>Principles of Statistics</td>
<td>(4.0)</td>
</tr>
<tr>
<td>ECON 2010</td>
<td>Microeconomics</td>
<td>(3.0)</td>
</tr>
<tr>
<td>ECON 2020</td>
<td>Macroeconomics</td>
<td>(3.0)</td>
</tr>
<tr>
<td>ECON 4150</td>
<td>Public Finance</td>
<td>(3.0)</td>
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Elective Requirements: 27 Credits

Complete courses numbered 1000 or higher (at least 16 credits must be upper-division)

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>POLS 230G</td>
<td>Introduction to Political Theory</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 3030</td>
<td>State and Local Government</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 3180</td>
<td>Public Opinion and Political Behavior</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 3200</td>
<td>US Congress</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 3250</td>
<td>Introduction to Law and Politics</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 3300</td>
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Emphasis Requirements: 18 Credits

Complete 18 credits from the following:

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<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>POLS 420R</td>
<td>Issues and Topics in Political Science</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 4720</td>
<td>Foundations of American Constitutionalism</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 4790</td>
<td>US Constitution</td>
<td>(3.0)</td>
</tr>
<tr>
<td>POLS 490R</td>
<td>Independent Study</td>
<td>(1.0)</td>
</tr>
<tr>
<td>HIST 3870</td>
<td>Constitutional History to Plessy 1896</td>
<td>(3.0)</td>
</tr>
<tr>
<td>HIST 3880</td>
<td>Constitutional History since Plessy 1896</td>
<td>(3.0)</td>
</tr>
<tr>
<td>PHIL 3150</td>
<td>Philosophical Issues in Feminism</td>
<td>(3.0)</td>
</tr>
<tr>
<td>PHIL 3530</td>
<td>Environmental Ethics</td>
<td>(3.0)</td>
</tr>
<tr>
<td>PHIL 3700</td>
<td>Social and Political Philosophy</td>
<td>(3.0)</td>
</tr>
<tr>
<td>SOC 320G</td>
<td>Race and Minority Relations</td>
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Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
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Political Science - Political Philosophy/Public Law Emphasis, B.S.

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**Related Careers**

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- Political Scientists
- Political Science Teachers, Postsecondary

**Political Science - World Politics Emphasis, B.A.**

**Requirements**

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**Total Program Credits: 120**

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<tr>
<th>General Education Requirements:</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)</td>
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<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology</td>
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<tr>
<td>Complete one of the following:</td>
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<tr>
<td>MATH 1030 Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)</td>
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</tr>
<tr>
<td>MATH 1040 Introduction to Statistics (3.0) (recommended for Social Science majors)</td>
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</tr>
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<td>MATH 1050 College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)</td>
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<td>Complete one of the following:</td>
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6. Successful completion of at least one Global/Intercultural course.

**Related Courses**

- Political Science Teachers, Postsecondary

**Elective Requirements:**

Complete the following courses:

- POLS 1440 Introduction to Middle East Politics (3.0)
- POLS 1800 Our Global Community (3.0)
- POLS 3100 Survey of International Terrorism (3.0)
- POLS 3400 American Foreign Policy (3.0)
- POLS 3500 International Relations of the Middle East (3.0)
- POLS 356G Comparative Politics of Central Asia (3.0)
- POLS 3600 International Relations of East Asia (3.0)
- POLS 3610 International Organization (3.0)
- POLS 3680 International Political Economy (3.0)
- POLS 420R Issues and Topics in Political Science (3.0)
- POLS 4500 International Conflict and Security (3.0)
- POLS 4610 International Law and Relations (3.0)
- POLS 490R Independent Study (1.0)
- HIST 205G Modern Latin America (3.0)
- HIST 430G Violence and Social Conflict in Latin America (3.0)
## Political Science - World Politics Emphasis, B.A.

### Careers

Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

### Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

## Political Science - World Politics Emphasis, B.S.

### Requirements

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<tr>
<td>MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors)</td>
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Complete one of the following:

- HIST 1700 American Civilization (3.0)
- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)

Complete the following:

- PHIL 2050 Ethics and Values | 3 |
- HLTH 1100 Personal Health and Wellness (2.0) | 2 |
- or PES 1097 Fitness for Life | 2 |

### Distribution Courses:

- Biology | 3 |
- Physical Science | 3 |
- Additional Biology or Physical Science | 3 |
- Humanities | 3 |
- Fine Arts | 3 |

### Social/Behavioral Science | 3 |

### Discipline Core Requirements: 39 Credits

- POLS 1010 Introduction to Political Science | 3 |
- POLS 1020 Political Ideologies | 3 |
- POLS 1100 American National Government | 3 |
- POLS 2100 Introduction to International Relations | 3 |
- POLS 2200 Introduction to Comparative Politics | 3 |
- POLS 3000 Political Analysis | 3 |
- POLS 3300 Introduction to Public Administration | 3 |
- POLS 4990 Senior Seminar (3.0) | 3 |
- or POLS 480R Internship | 3 |

**Quantitative Requirement:** Complete 15 credits from the following courses:

- MATH 1060 Trigonometry (3.0)
- MATH 1210 Calculus I (5.0)
- MATH 1220 Calculus II (5.0)
- MATH 2040 Principles of Statistics (4.0)
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### Elective Requirements: 27 Credits

Complete courses numbered 1000 or higher (at least 16 credits must be upper-division)

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- POLS 420R Issues and Topics in Political Science (3.0)
- POLS 4500 International Conflict and Security (3.0)
- POLS 4610 International Law and Relations (3.0)
- POLS 490R Independent Study (1.0)
- HIST 205G Modern Latin America (3.0)
- HIST 430G Violence and Social Conflict in Latin America (3.0)

### Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade below C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Political Science - World Politics Emphasis, B.S.

Careers

Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary
Honors

Mission Statement
The Honors Program at Utah Valley University provides opportunities for highly motivated students pursuing any associate or baccalaureate degree to realize academic, professional, and personal potential. Honors offers a powerful first-year experience, sustained peer-group interactions, and small courses with outstanding faculty employing innovative classroom approaches. Honors students benefit from experiential learning, undergraduate research, cultural events, and dynamic social gatherings.

Program Description
The Honors Program admits students competitively each February and October on the basis of previous academic experience, curiosity, initiative, and intellectual potential. All students are welcome to apply, although most admitted students do have strong GPAs and ACT scores above 24. Honors offers both a lower-division entry point (for students with fewer than 60 college credits) and an upper-division entry point (more than 60 credits). The Honors Program can accommodate students from any major, using both General Education courses and majors courses at an Honors level to enhance students' undergraduate experience. Please visit and apply at www.uvu.edu/honors.

Program Benefits
- Challenging and engaging coursework
- Mentoring from professors for General Education and majors courses
- Residential and academic scholarship opportunities
- Motivated collegiate peer group
- Access to cultural, outdoor, and academic events paid for by the Honors Program
- Small class sizes
- Special recognition on transcript and diploma
- Specialized graduation regalia
- Priority course registration (all Honors students may register when registration opens)
- Specialized advising and personalized mentoring
- Frequent cultural and academic events offered through Honors Colloquium
- Access to the Honors Study Commons and computers
- Regular opportunities for undergraduate research
- Excellent graduate school preparation

Honors Scholarships
The Honors Program also offers merit-based tuition scholarships to Utah residents, as well as a competitive housing scholarship that is available to both resident and non-resident students. Application to the program and for these scholarships occurs each October for Spring semester and each January for Fall semester.

Honors Courses
Through Honors, students complete a series of small classes with other highly motivated students, guided by faculty invested in their students' intellectual potential. Students grapple with texts and ideas that have fascinated the world's great thinkers, writers, artists, and scientists as they gain the courage to try out new and challenging ideas, places, and experiences. Students use Honors Contracts in their major to complete required or elective courses at an Honors level. The Program concludes with each student completing a senior thesis or project that demonstrates commitment and skill within the student’s selected major. Through Honors, all highly motivated students can chart a customized program of study most suited to their post-baccalaureate plans.

Honors Graduation Requirements
Students must have a 3.5 cumulative GPA when applying for graduation to become and Honors Program Graduate.

Lower-Division Entry for Baccalaureate Degrees: 33 credits
- 3 credits of Honors Colloquium: HONR 100R
- 3 credits of Ancient Legacies: HONR 2000
- 3 credits of Modern Legacies: HONR 2100
- 3 credits of Honors Ethics and Values: PHIL 205H
- 6 credits of any other General Education course at an Honors level, e.g., ENGL 201H, MUSC 101H
- 6 credits of upper-division courses 3000+, completed at an Honors level within student's major
- 6 credits of Honors Thesis or Honors Project: HONR 498R or 499R

Upper-Division Entry for Baccalaureate Degrees: 26 credits
- 2 credits of Honors Colloquium: HONR 100R
- 3 credits of Ancient Legacies: HONR 2000
- 3 credits of Modern Legacies: HONR 2100
- 12 credits of upper-division courses numbered 3000+, completed at an Honors level within student's major
- 6 credits of Honors Thesis or Honors Project: HONR 498R or 499R

Program Requirements
All Honors students must take at least one Honors course per semester (petitions for exceptions are permitted). In their first two semesters, all Honors students must complete Ancient Legacies (HONR 2000) and Modern Legacies (HONR 2100), as well as Honors Colloquium (HONR 100R). The Honors Colloquium is a 1-credit, repeatable course that includes cohort-building activities emphasizing cultural, outdoor, and academic activities. These include trips to the Utah Symphony, Utah Opera, museums, theatrical performances, guest lecturers from the academic and professional communities, outdoor recreation activities, reading groups, and community or campus service projects.

Honors Program Director: Kate McPherson, PhD
- Telephone: 801-863-8055
- Email: kmcpherson@uvu.edu

Professor McPherson directs all aspects of the program and mentors students at every level.

Honors Program Coordinator: Allen Hill
- Telephone: 801-863-6841
- Email: allen.hill@uvu.edu

Allen Hill assists with program operations, experiential learning trips, and advises Honors students with last names A-L.

Honors Program Coordinator: Tiffany Nez
- Telephone: 801-863-6223
- Email: tiffany.nez@uvu.edu

Tiffany Nez assists with program operations, Honors scholarships and housing, and advises Honors students with last names M-Z.

FACULTY
MCPHERSON, Kathryn R. Professor
Information Systems and Technology

Mission Statement

The Information Systems & Technology Department offers stackable degree programs to provide students with engaged learning opportunities to help students develop technical, communication, managerial, and lifelong-learning skills. The department’s programs prepare students for opportunities in information systems, information technology and security, information management, and education.

Vision Statement

The Information Systems and Technology Department will be the premier source of skilled information systems, information technology and security, information management, and business education professionals in the Intermountain Mountain region. This vision will be accomplished by:

- Attracting well-qualified, motivated, and engaged students.
- Attracting and maintaining a skilled and highly trained, student-oriented faculty who are excellent teachers, applied scholars, and committed to serving the institution.
- Providing educational programs that are regionally and nationally recognized within the educational and professional communities, and technologically relevant to potential employers of graduates.

Information Systems & Technology

- Department Chair: Keith Mulbery
- Office: CS 601
- Telephone: 801-863-8843
- Email: Keith.Mulbery@uvu.edu
- Administrative Support: Cheryl Levi
- Office: CS 601
- Telephone: 801-863-8182
- Email: Cheryl.Levi@uvu.edu

Program Coordinator: Cynthia Krebs

Programs

The Information Systems & Technology Department offers one Certificate of Proficiency, two Certificates of Completion, two AAS degrees, two AS degrees, three Bachelor of Science degrees, one Graduate Certificate, and several minors. Programs include Information Management, Information Systems, Information Technology, Administrative Information Support/Management, and Business and Marketing Education.

Faculty have earned appropriate degrees, with over 30% holding PhDs and 23% ABD. Faculty have worked full-time at UVU for an average of 13 years, not including teaching experience at other institutions or other employment. Industry experts in the field are hired as adjuncts to teach a variety of courses.

Business & Marketing Education and Administrative Information Management

- Cynthia Krebs
- Office: CS 601a

Course Descriptions

Business/Marketing Education .............................................................................. 550
Information Management ..................................................................................... 661

Information Systems & Technology Advisory Board:

Charles Chiang, Manager of Customer Service, EMC2; Jonathan Daniels, Online Marketing Analyst, DigiCert; Laura deShazo, Career & Technical Education Business Education Specialist, Utah State Office of Education; Ken Finch, Senior Program Manager, ICS Office of CIO, The Church of Jesus Christ of Latter-day Saints; Dave Gappmayer, Principal Test Manager, Microsoft; Grant Gordon, President/CEO, RationalUX; David Griffiths, Manager of Engineering Team, AdvancedMD; Andrea Hayhurst, VP of Business Technology, Nu Skin Enterprises; Kip Heimull, Field Services Utah/Idaho Team Leader, Zions Management Services Company; Chris Hine, Sr. Alliance Manager Integrated Systems, SUSE; Josh Hogan, Manager, Enterprise Data Management, Nu Skin Enterprises; Stanley Huff, Chief Medical Informatics Officer, Intermountain Healthcare; Jeremiah Jones, Lead Technologist, aVinci Media; Brian Kamey, COO, Access Data; Scott Lemon, President, HumanXtensions L.L.C.; Jared Mason, Business Intelligence Manager, The church of Jesus Christ of Latter-day Saints; Josie Reynaud, Payson High School, Nebo School District; Vickie Walker, Administrative Support IV, Information Technology, Utah Valley University; Lynne Yocom, ITS Fiber Optics Manager, State of Utah, Utah Dept. of Transportation; Kevin Young, Sr. Security Administrator, Adobe Systems Incorporated.

Cyber Security Advisory Board:

Dan Anderson, Consultant, Spectra; Andrew Barney, Manager Information Security, Adobe Systems Incorporated; Vance Checketts, High-Tech COO, EMC2; David Glod, VP of Information Security, Mountain America Credit Union; Gary Glover, Director of Security Assessments, SecurityMetrics, Inc.; David Hunt, VP of Global Corporate Events, Symantec; Steve Leyba, Service Area Director, Department of Workforce Services; Angela Madsen, Operations Manager, Department of Workforce Services; Robert Schroader, President, CEO, Paraben Corporation; Justin Searle, Managing Partner, UtiliSec; Jutta Williams, Chief Privacy Officer, Intermountain Healthcare; Jeremiah Jones, Lead Technologist, aVinci Media; Brian Kamey, COO, Access Data; Scott Lemon, President, HumanXtensions L.L.C.; Jared Mason, Business Intelligence Manager, The church of Jesus Christ of Latter-day Saints; Josie Reynaud, Payson High School, Nebo School District; Vickie Walker, Administrative Support IV, Information Technology, Utah Valley University; Lynne Yocom, ITS Fiber Optics Manager, State of Utah, Utah Dept. of Transportation; Kevin Young, Sr. Security Administrator, Adobe Systems Incorporated.

Course Catalog 2015-2016

Utah Valley University
## Degrees & Programs

### Administrative Information Management, A.S.

#### Requirements

The two-year pre-major AS in Administrative Information Management program provides training for students seeking to complete general education requirements and develop their skills and knowledge in basic computer applications, written business communication, and financial accounting. Graduates of this program obtain temporary employment and pursue a Bachelor's degree for more advanced training in Information Management.

**Total Program Credits: 62**

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>36 Credits</th>
</tr>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)</td>
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</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
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</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
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</tr>
<tr>
<td>and HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740 US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000 American Heritage (3.0)</td>
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<tr>
<td>POLS 1100 American National Government (3.0)</td>
<td></td>
</tr>
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</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness (2.0)</td>
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</tr>
<tr>
<td>or PES 1097 Fitness for Life</td>
<td>2</td>
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</table>

**Distribution Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2020 Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
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</tbody>
</table>

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 2010 Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 2200 Written Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>IM 1010 Basic Computer Applications</td>
<td>2</td>
</tr>
<tr>
<td>IM 2100 Document Processing Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2300 Information Management Principles</td>
<td>3</td>
</tr>
<tr>
<td>IM 2400 Presentation Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2600 Spreadsheet Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2800 Integrated Software Projects</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 3 credits from department pre-approved electives; see advisor for more information.</td>
<td>3</td>
</tr>
</tbody>
</table>

### Graduation Requirements:

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 or above with a minimum 2.5 GPA in all discipline and elective courses with no grade lower than a C-.
3. Residency hours—minimum of 20 credit hours through attendance at UVU.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

### Administrative Information Management, A.S. Careers

**Careers:**

- Entry-level Administrative Support
- Entry-Level Clerical Support
- Front Office Assistant
- Office Assistant
- Data-Entry Operator
- Administrative Assistant

### Related Careers

- Data Entry Keyers

### Administrative Information Support, A.A.S.

#### Requirements

Every industry relies heavily on competent, qualified, and professional office staff. The two-year AAS in Administrative Information Support program provides training for students seeking to develop their skills and knowledge of office administration and office systems. The program core focuses on word processing, presentations, graphics, spreadsheet, and database applications, as well as written and oral business communication skills, office procedures, and basic accounting skills.

**Total Program Credits: 63**

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>16 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH</td>
<td></td>
</tr>
<tr>
<td>MKTG 2200 Written Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>MATHEMATICS</td>
<td></td>
</tr>
<tr>
<td>ACC 1150 Fundamentals of Business Math</td>
<td>3</td>
</tr>
<tr>
<td>or MAT 1010 Intermediate Algebra (4.0)</td>
<td></td>
</tr>
<tr>
<td>or MATH 1050 College Algebra (4.0)</td>
<td></td>
</tr>
<tr>
<td>HUMANITIES/FINE ARTS/FOREIGN LANGUAGE</td>
<td></td>
</tr>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>SOCIAL AND BEHAVIORAL SCIENCE</td>
<td></td>
</tr>
<tr>
<td>ECON 2020 Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>or MGMT 2110 Interpersonal Communication (3.0)</td>
<td></td>
</tr>
<tr>
<td>or MGMT 2030 Women in Business (3.0)</td>
<td></td>
</tr>
<tr>
<td>BIOLOGY OR PHYSICAL SCIENCE</td>
<td></td>
</tr>
<tr>
<td>Any approved Biology or Physical Science Distribution</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT</td>
<td></td>
</tr>
<tr>
<td>Any approved Physical Education, Health, Safety or Environment Course</td>
<td>1</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 2010 Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 2020 Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>FIN 1060 Personal Finance</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2420 Web Application Design</td>
<td>3</td>
</tr>
</tbody>
</table>
Information Systems and Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IM 1010</td>
<td>Basic Computer Applications</td>
<td>2</td>
</tr>
<tr>
<td>IM 2100</td>
<td>Document Processing Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2300</td>
<td>Information Management Principles</td>
<td>3</td>
</tr>
<tr>
<td>IM 2400</td>
<td>Presentation Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2500</td>
<td>Graphic Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2600</td>
<td>Spreadsheet Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2800</td>
<td>Integrated Software Projects</td>
<td>3</td>
</tr>
<tr>
<td>IM 3700</td>
<td>Database Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 21 Credits

1. Written Communication Requirement:
   - ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3)
   - ENGL 2020 Intermediate Writing--Science and Technology (3)

2. Core Requirements:
   - INFO 1120 Information Systems and Technology Fundamentals (3)
   - INFO 1200 Computer Programming I for IS/IT (3)
   - INFO 2410 Database Fundamentals (3)
   - INFO 2420 Web Application Design (3)
   - IT 2600 Data Communication Fundamentals (3)
   - or CS 2600 Computer Networks I (3)
   - IT 2700 Information Security Fundamentals (3)

3. Elective Requirements: 27 Credits
   - Choose 27 credits from either the Information Systems group or the Information Technology group. See department advisor.

   **INFORMATION SYSTEMS**
   - ACC 2010 Financial Accounting (3)
   - MKTG 2200 Written Business Communication (3)
   - INFO 2200 Computer Programming II for IS/IT (3)
   - INFO 3120 Management Information Systems (3)
   - INFO 3410 Database Systems and Warehousing (3)
   - INFO 3420 Web Systems Development (3)
   - INFO 3422 PHP Web Application Development (3)
   - INFO 3430 Systems Analysis and Design (3)
   - GEOG 3600 Introduction to Geographic Information Systems (4)
   - INFO 3700 Health Informatics Fundamentals (3)
   - INFO 3750 Healthcare Information Systems Applications (3)

   **INFORMATION TECHNOLOGY**
   - IT 1510 Introduction to System Administration--Linux/UNIX (3)
   - IT 1600 Computer Architecture and Systems Software (3)
   - IT 2400 Voice and Data Cabling Fundamentals (3)
   - IT 2530 Introduction to System Administration--Windows Client (3)
   - IT 2800 Computer Forensic Fundamentals (3)
   - IT 290R Current Topics in Information Technology (1)

Graduation Requirements:
1. Overall grade point average of 2.0 or above with a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a C-.
2. A minimum keyboarding skill of 40 net words per minute is required for graduation.
3. Residency hours—minimum of 20 credit hours through attendance at UVU.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Note: Potential 4-year students need to take ACC 2010 (or 3000), MATH 1050, ECON 2020, and MGMT 3890.

Administrative Information Support, A.A.S.

CAREERS
- Administrative Assistant, Administrative Secretary, Office Assistant, Front Office Assistant

Related Careers
- Data Entry Keyers

Information Systems and Technology, A.A.S.

Requirements
The two-year AAS in Information Systems and Technology is designed to help students develop job-ready computer skills to meet today’s industry needs. Students complete a foundational core in programming, database, web application design, data communication, and networking. After that, students select a specialization in either Information Systems or Information Technology to complete a focused set of courses to obtain more in-depth knowledge and skills for a variety of computer-related jobs. If planned carefully with an advisor, this program provides a smooth, stackable pathway to the B.S. in Information Systems degree or the B.S. in Information Technology degree at UVU.

Total Program Credits: 65

General Education Requirements: 17 Credits

ENGLISH:
- ENGL 1010 Introduction to Writing (3)

MATHEMATICS:
- MATH 1050 College Algebra (4)
- or Any higher Mathematics Course

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE:
- Any approved Humanities, Fine Arts, or Foreign Language Distribution course (3)

SOCIAL AND BEHAVIORAL SCIENCE:
- Social/Behavioral Science (CJ 1010 recommended for future BS IT Computer Forensics and Security emphasis) (3)
- BIOLOGY OR PHYSICAL SCIENCE (PHYS 2010 and PHYS 2015 recommended for future BS IT majors; any approved Biology or Physical Science Distribution Course for future BS IS majors) (3)

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT:
- Any approved Physical Education, Health, Safety or Environment Course (1)

Elective Requirements: 12 Credits
- Complete 12 credits from department pre-approved electives; see advisor for details.
Information Systems and Technology

Course Catalog 2015-2016

Utah Valley University

IT 3510
Advanced System Administration--Linux/UNIX (3.0)

IT 3530
Advanced System Administration--Windows Server (3.0)

IT 3540
Mac OS and Server Support (3.0)

IT 3600
Internetworking and Router Management (3.0)

IT 3650
Information Storage and Management (3.0)

IT students need to take 6 credits in approved domain (see list of approved courses on the BS IT degree).

Graduation Requirements:

1. Completion of a minimum of 65 semester credits.
2. Overall grade point average of 2.0 (C) or above with a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a "C-.
3. Residency hours: minimum of 20 credit hours through attendance at UVU.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Information Systems and Technology, A.A.S.

Careers

Careers:
Computer Support Specialist, Web Developer, Assistant Information Systems Analyst, Systems Specialist, IT Support, Programmer, Network Information Technician, QA Software Tester

Related Careers

• Computer and Information Systems Managers
• Computer and Information Research Scientists
• Computer Systems Analysts
• Database Administrators
• Network and Computer Systems Administrators
• Computer Network Architects
• Computer Occupations, All Other
• Computer Science Teachers, Postsecondary

Information Systems and Technology, A.S.

Requirements

The two-year pre-major AS in Information Systems and Technology program provides training for students seeking to complete general education requirements and develop foundational skills in programming, database, web application design, system administration, computer architecture, data communication, and security. Graduates of this program obtain temporary employment and pursue a Bachelor of Science in Information Systems or Information Technology for more advanced education.

Total Program Credits: 60

General Education Requirements: 36 Credits

ENGL 1010 Introduction to Writing 3

or ENGL 2020 Intermediate Writing--Science and Technology 3

MATH 1050 College Algebra 4

Complete one of the following: 3

HIST 2700 US History to 1877 (3.0)

and HIST 2710 US History since 1877 (3.0)

HIST 1700 American Civilization (3.0)

HIST 1740 US Economic History (3.0)

POLS 1000 American Heritage (3.0)

POLS 1120 Information Systems and Technology Fundamentals 3

INFO 1200 Computer Programming I for IS/IT 3

INFO 2410 Database Fundamentals 3

INFO 2420 Web Application Design 3

IT 1510 Introduction to System Administration--Linux/UNIX 3

IT 1600 Computer Architecture and Systems Software 3

IT 2600 Data Communication Fundamentals 3

IT 2700 Information Security Fundamentals 3

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 or above with a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a "C-.
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Information Systems and Technology, A.S.

Careers

Careers:
Entry-level positions, such as Help Desk, Web Developer, QA Software Tester, Network Support Technician

Related Careers

• Computer and Information Systems Managers
• Computer and Information Research Scientists
• Computer Systems Analysts
• Database Administrators
• Network and Computer Systems Administrators
• Computer Network Architects
• Computer Occupations, All Other
• Computer Science Teachers, Postsecondary

Administrative Support, Certificate of Completion

Requirements

The one-year certificate in Administrative Support program provides training in basic computer literacy and applications, such as word processing, presentations, graphics,
and spreadsheet applications. In addition, students build skills in interpersonal and written business communication.

Total Program Credits: 30

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>26 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IM 1010 Basic Computer Applications</td>
<td>2</td>
</tr>
<tr>
<td>IM 2100 Document Processing Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2300 Information Management Principles</td>
<td>3</td>
</tr>
<tr>
<td>IM 2400 Presentation Applications (3.0)</td>
<td></td>
</tr>
<tr>
<td>or IM 2500 Graphic Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2600 Spreadsheet Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2800 Integrated Software Projects</td>
<td>3</td>
</tr>
<tr>
<td>ACC 1150 Fundamentals of Business Math (3.0)</td>
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<tr>
<td>or ACC 2010 Financial Accounting</td>
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<tr>
<td>MGMT 2110 Interpersonal Communication</td>
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<tr>
<td>MKTG 2200 Written Business Communication</td>
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</table>

Elective Requirements: 4 Credits

Complete 4 credits from pre-approved electives; see advisor for details.

Graduation Requirements:

1. Completion of a minimum of 30 credits.
2. Overall GPA of 2.0 or higher with a minimum grade of 'C-' in all courses.
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU.
4. A minimum keyboarding skill of 40 net words per minute is required for graduation.
5. Students are responsible for completing all prerequisite courses.

Administrative Support, Certificate of Completion

Careers:

Receptionist, Data-entry Operator, Office Support, Information Clerk, Entry-Level Administrative Assistant

Related Careers

- Executive Secretaries and Executive Administrative Assistants
- Secretaries and Administrative Assistants, Except Legal, Medical, and Executive

Information Technology, Certificate of Proficiency

Requirements

The Certificate of Proficiency in Information Technology provides students with training in basic computer applications and introductory coursework in the field of Information Technology. The program is designed to get people employed in entry-level IT positions. Students can select from a variety of introductory IT courses to build knowledge and skill in computer programming, database fundamentals, Linux and Windows system administration, computer architecture, cabling, networking, and security.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>2 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IM 1010 Basic Computer Applications</td>
<td>2</td>
</tr>
</tbody>
</table>

Elective Requirements: 16 Credits

Complete 16 credits from the following:

INFO 1120 Information Systems and Technology Fundamentals (3.0)
INFO 1200 Computer Programming I for IS/IT (3.0)
INFO 2410 Database Fundamentals (3.0)
IT 1510 Introduction to System Administration--Linux/UNIX (3.0)
IT 1600 Computer Architecture and Systems Software (3.0)
IT 2400 Voice and Data Cabling Fundamentals (3.0)
IT 2530 Introduction to System Administration--Windows Client (3.0)
IT 2600 Data Communication Fundamentals (3.0)
IT 2700 Information Security Fundamentals (3.0)
IT 2800 Computer Forensic Fundamentals (3.0)
IT 290R Current Topics in Information Technology (1.0)
IM 2010 Business Computer Proficiency (3.0)

Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of 'C-' required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours: minimum of 5 credit hours through course attendance at UVU.

Information Technology, Certificate of Proficiency

Careers

Graduates are employed in entry-level positions in the IT field, such as Help Desk Technician, Support Technician, Computer Sales Person, Computer Customer Support Specialists, and Computer Technician.

Related Careers

- Computer Systems Analysts
- Information Security Analysts
- Computer Network Architects
- Computer Network Support Specialists

Network Administration, Certificate of Completion

Requirements

The Certificate of Completion in Network Administration provides students with training in server administration, computer architecture, and networking. Students select from a variety of courses in cabling, Windows system administration, router management, information security, computer forensics, and Linux system administration.

Total Program Credits: 31

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>25 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 1120 Information Systems and Technology Fundamentals</td>
<td></td>
</tr>
<tr>
<td>INFO 1200 Computer Programming I for IS/IT</td>
<td></td>
</tr>
<tr>
<td>INFO 2410 Database Fundamentals</td>
<td></td>
</tr>
<tr>
<td>IT 1510 Introduction to System Administration--Linux/UNIX</td>
<td></td>
</tr>
<tr>
<td>IT 1600 Computer Architecture and Systems Software</td>
<td></td>
</tr>
<tr>
<td>IT 2600 Data Communication Fundamentals</td>
<td></td>
</tr>
</tbody>
</table>

Elective Requirements: 16 Credits

Complete 16 credits from the following:

INFO 1120 Information Systems and Technology Fundamentals (3.0)
INFO 1200 Computer Programming I for IS/IT (3.0)
INFO 2410 Database Fundamentals (3.0)
Information Systems and Technology

Course Catalog 2015-2016

or CS 2600 Computer Networks I (3.0)

Communication Requirement:

ENGL 1010 Introduction to Writing 3

Computation Requirement:

MAT 1010 Intermediate Algebra 4
MATH 1050 College Algebra (4.0)

Elective Requirements: 6 Credits
Choose 6 credits from the following courses:

IT 2400 Voice and Data Cabling Fundamentals (3.0)
IT 2530 Introduction to System Administration--Windows Client (3.0)
IT 2700 Information Security Fundamentals (3.0)
IT 2800 Computer Forensic Fundamentals (3.0)
IT 3510 Advanced System Administration--Linux/UNIX (3.0)
IT 3530 Advanced System Administration--Windows Server (3.0)
IT 3600 Internetworking and Router Management (3.0)
IT 3650 Information Storage and Management (3.0)
IT 3700 Information Security--Network Defense and Countermeasures (3.0)

Graduation Requirements:

1. Completion of a minimum of 31 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

Network Administration, Certificate of Completion

Careers:
System Technician, Network Support Technician, Computer Support Specialist, Systems Specialist

Related Careers
• Computer Systems Analysts
• Information Security Analysts
• Computer Network Architects
• Computer Network Support Specialists

Applied Data Analytics, Minor

Requirements

Total Program Credits: 18

Discipline Core Requirements: 6 Credits
INFO 2410 Database Fundamentals 3
INFO 3130 Introduction to Applied Data Analytics 3

Elective Requirements: 12 Credits
Choose 12 hours from the following:

INFO 3410 Database Systems and Warehousing (3.0)
INFO 4120 Business Intelligence Systems (3.0)
INFO 4130 Data Science and Big Data Analytics (3.0)
MKTG 3680 Marketing with Social Media (3.0)
MKTG 3690 Advanced Digital Marketing and Analytics (3.0)
MKTG 4610 Sales Analytics (3.0)
STAT 4100 Design of Experiment (3.0)
STAT 4200 Survey Sampling (3.0)
STAT 4400 Multivariate Analysis (3.0)
STAT 4500 Nonparametric Statistics (3.0)
DGM 3750 Media Traffic and Analytics (3.0)
CS 4620 Data Mining (3.0)

Other advisor-approved elective.

Applied Data Analytics, Minor

Careers

Related Careers
• Chief Executives
• General and Operations Managers
• Operations Research Analysts
• Business Teachers, Postsecondary

Business Education - Basic Business Core

Emphasis, Minor

Requirements

This minor provides students or teachers who have an Educator License in the State of Utah with the coursework necessary to obtain a Business Education Basic Core endorsement. This endorsement enables recipients to teach Accounting, Banking and Finance, Business Communication, Business Law, Business Management, Business Math, Economic, Entrepreneurship, General Financial Literacy, and Leadership Principles.

Total Program Credits: 24

Matriculation Requirements:

1. Minimum ACT scores.
2. GPA of 2.75 or higher.
3. A CAPP written exam.
4. An interview directed by the Secondary Teacher Education Selection and Retention Committee.
5. Must be accepted into a Secondary Education major program

Discipline Core Requirements: 3 Credits
BMED 4200 Methods of Teaching Digital Technology 3

Emphasis Requirements: 21 Credits
ACC 2010 Financial Accounting 3
LEGL 3000 Business Law 3
FIN 1060 Personal Finance 3
ECON 2010 Microeconomics 3
MGMT 3000 Organizational Behavior 3
FIN 3100 Principles of Finance 3
MKTG 3600 Principles of Marketing 3

Graduation Requirements:

1. Overall grade point average 2.75 or above with no grade lower than a B- in all discipline and specialty core courses.
2. Students are responsible for completing all prerequisite courses.
Information Systems and Technology

Notes:
Students must pass a criminal background check at the beginning of the junior year.
Participation in Phi Beta Lambda (PBL) or Delta Epsilon Chi (DEX) is recommended for one semester.
Students will teach at least one computer technology course during the student teaching experience.

Business Education - Basic Business Core
Emphasis, Minor

Careers
Secondary Education teacher with Minor in Basic Business Core

Related Careers
• Business Teachers, Postsecondary
• Education Teachers, Postsecondary
• Vocational Education Teachers, Postsecondary
• Career/Technical Education Teachers, Middle School
• Career/Technical Education Teachers, Secondary School

Business Education - Business Information Technology Emphasis, Minor

Requirements
This minor provides students or teachers who have an Educator License in the State of Utah with the coursework necessary to obtain an endorsement in the Business Information Technology core. This endorsement enables recipients to teach Business Web Page Design, Computer Technology, Desktop Publishing, Digital Business Applications, Social Media Marketing, Advertising and Promotion, and Word Processing.

Total Program Credits: 20

Matriculation Requirements:
1. Minimum ACT scores.
2. GPA of 2.75 or higher.
3. A CAPP written exam.
4. An interview directed by the Secondary Teacher Education Selection and Retention Committee.
5. Must be accepted into a Secondary Education major program

Discipline Core Requirements:
BMED 4200 Methods of Teaching Digital Technology 3

Emphasis Requirements:
IM 1010 Basic Computer Applications 2
IM 2500 Graphic Applications 3
IM 2600 Spreadsheet Applications 3
IM 3700 Database Applications 3
IM 3500 Desktop Publishing Applications 3
INFO 2420 Web Application Design 3

Graduation Requirements:
1. Overall grade point average 2.75 or above with no grade lower than a B- in all discipline and specialty core courses.
2. Students are responsible for completing all prerequisite courses.

Notes:
Students must pass a criminal background check at the beginning of the junior year.
Information Systems and Technology

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Utah Valley University

DGM 1110 Digital Media Essentials I (4.0)
CS 1030 Foundations of Computer Science (3.0)
INFO 1200 Computer Programming I for IS/IT (3.0)

Multimedia

DGM 1110 Digital Media Essentials I (4.0)
DGM 2210 3D Modeling and Animation Essentials (4.0)
DGM 2110 Digital Motion Picture Essentials (3.0)
or
DGM 2130 Digital Audio Essentials (3.0)
DGM 2120 Web Essentials (3.0)
or
INFO 2420 Web Application Design (3.0)

Network+

IT 2600 Data Communication Fundamentals (3.0)
IT 290R Current Topics in Information Technology
Note: Prepare and pass CompTIA Network+ exam (1.0)

Web Development

INFO 2420 Web Application Design (3.0)
INFO 3420 Web Systems Development (3.0)
INFO 3422 PHP Web Application Development (3.0)

Graduation Requirements:

1. Overall grade point average 2.75 or above with no grade lower than a B- in all discipline and specialty core courses.
2. Students are responsible for completing all prerequisite courses.

Notes:

Students must pass a criminal background check at the beginning of the junior year.
Participation in Phi Beta Lambda (PBL) or Delta Epsilon Chi (DEX) is recommended for one semester.
Students will teach at least one computer technology course during the student teaching experience.

Business Education - Information Technology, Minor

Careers:
Secondary Education teacher with Minor in Multimedia

Related Careers

• Business Teachers, Postsecondary
• Education Teachers, Postsecondary
• Vocational Education Teachers, Postsecondary
• Career/Technical Education Teachers, Middle School
• Career/Technical Education Teachers, Secondary School

Business Education - Marketing Emphasis, Minor

Requirements

This minor provides students or teachers who have an Educator License in the State of Utah with the coursework necessary to obtain a Business Education Marketing endorsement. This endorsement enables recipients to teach Customer Service, Fashion Merchandising, Marketing I and II, Real Estate, Retailing, Retailing Management, Sports and Entertainment Marketing, and Travel and Tourism.

Total Program Credits: 21

Matriculation Requirements:

1. Minimum ACT scores.
2. GPA of 2.75 or higher.
3. A CAPP written exam.
4. An interview directed by the Secondary Teacher Education Selection and Retention Committee.
5. Must be accepted into a Secondary Education major program.

Discipline Core Requirements: 3 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMED 4200</td>
<td>Methods of Teaching Digital Technology</td>
</tr>
</tbody>
</table>

Emphasis Requirements: 12 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3600</td>
<td>Principles of Marketing</td>
</tr>
<tr>
<td>MKTG 335G</td>
<td>International Marketing</td>
</tr>
<tr>
<td>MKTG 3650</td>
<td>Professional Selling</td>
</tr>
<tr>
<td>MKTG 3660</td>
<td>Digital Marketing</td>
</tr>
</tbody>
</table>

Emphasis Elective Requirements: 6 Credits

Complete 6 credits from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3220</td>
<td>Retail Management</td>
</tr>
<tr>
<td>MKTG 3620</td>
<td>Consumer Behavior</td>
</tr>
<tr>
<td>MKTG 3630</td>
<td>Services Marketing</td>
</tr>
<tr>
<td>MKTG 3670</td>
<td>Advertising and Promotion</td>
</tr>
<tr>
<td>MGMT 3170</td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td>HM 1010</td>
<td>Introduction to Hospitality Industry</td>
</tr>
<tr>
<td>HM 3710</td>
<td>Marketing of Hospitality Services</td>
</tr>
</tbody>
</table>

For Economics Endorsement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2020</td>
<td>Macroeconomics</td>
</tr>
<tr>
<td>and ECON 2010</td>
<td>Microeconomics</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Overall grade point average 2.75 or above with no grade lower than a B- in all discipline and specialty core courses.
2. Students are responsible for completing all prerequisite courses.

Notes:

Students must pass a criminal background check at the beginning of the junior year.
Participation in Phi Beta Lambda (PBL) or Delta Epsilon Chi (DEX) is recommended for one semester.
Students will teach at least one computer technology course during the student teaching experience.

Business Education - Marketing Emphasis, Minor

Careers:
Secondary Education teacher with Minor in Marketing

Related Careers

• Business Teachers, Postsecondary
• Education Teachers, Postsecondary
• Vocational Education Teachers, Postsecondary
• Career/Technical Education Teachers, Middle School
• Career/Technical Education Teachers, Secondary School
Business Information Technology, Minor

Requirements

The Minor in Business Information Technology gives students with a business or liberal arts major, the option of strengthening their general studies with technical coursework.

Total Program Credits: 23

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 17 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IM 1010</td>
<td>Basic Computer Applications</td>
<td>2</td>
</tr>
<tr>
<td>IM 2100</td>
<td>Document Processing Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2400</td>
<td>Presentation Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2600</td>
<td>Spreadsheet Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 3700</td>
<td>Database Applications</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2420</td>
<td>Web Application Design</td>
<td>3</td>
</tr>
<tr>
<td>or DGM 2120</td>
<td>Web Essentials (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 6 Credits

Select 6 credits from department pre-approved courses; see advisor for more information.

Graduation Requirements:
1. Overall grade point average of 2.5 GPA in all discipline core and elective courses with no grade lower than a C-.
2. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Business Information Technology, Minor

Careers

Graduates are qualified for entry-level positions in the IT field, such as Help Desk Technician, Support Technician, Computer Sales Person, Computer Customer Support Specialists, and Computer Technician.

Related Careers
• Audio-Visual and Multimedia Collections Specialists

Information Systems and Technology, Minor

Requirements

The Minor in Information Systems gives students with a business or liberal arts major, the option of strengthening their general studies with technical coursework.

Total Program Credits: 21

Discipline Core Requirements: 12 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 1120</td>
<td>Information Systems and Technology Fundamentals (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Prerequisite:

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 1200</td>
<td>Computer Programming I for IS/IT</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2410</td>
<td>Database Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>IT 1800</td>
<td>Computer Architecture and Systems Software</td>
<td>3</td>
</tr>
<tr>
<td>IT 2600</td>
<td>Data Communication Fundamentals</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 9 Credits

Complete 9.0 credits from the following. 6 credits of which must be upper division:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 2200</td>
<td>Computer Programming II for IS/IT</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2420</td>
<td>Web Application Design</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3120</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3410</td>
<td>Database Systems and Warehousing</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3420</td>
<td>Web Systems Development</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3430</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3700</td>
<td>Health Informatics Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>INFO 4120</td>
<td>Business Intelligence Systems</td>
<td>3</td>
</tr>
<tr>
<td>IT 1510</td>
<td>Introduction to System Administration--Linux/UNIX (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>IT 2530</td>
<td>Introduction to System Administration--Windows Client (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>IT 2700</td>
<td>Information Security Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>IT 2800</td>
<td>Computer Forensic Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>IT 3510</td>
<td>Advanced System Administration--Linux/UNIX (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>IT 3530</td>
<td>Advanced System Administration--Windows Server (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>IT 3600</td>
<td>Internetworking and Router Management (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>IT 3700</td>
<td>Information Security--Network Defense and Countermeasures (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements:

To fill the requirements for an information systems and technology minor, students must have no course grade lower than C- in any of the INFO or IT courses required for the minor.

Information Systems and Technology, Minor

Careers

Entry-level positions, such as Help Desk, Web Developer, QA Software Tester, Network Support Technician

Related Careers
• Computer and Information Systems Managers
• Computer and Information Research Scientists
• Computer Systems Analysts
• Database Administrators
• Network and Computer Systems Administrators
• Computer Network Architects
• Computer Occupations, All Other
• Computer Science Teachers, Postsecondary

Business/Marketing Education, B.S.

Requirements

Students interested in teaching can pursue a Bachelor of Science in Business/Marketing Education and a secondary teaching license through a joint program offered by the Information Systems and Technology Department and the School of Education. The Business/Marketing Education curriculum prepares students to teach business, marketing, and information technology in secondary schools.

Total Program Credits: 124
Information Systems and Technology

Matriculation Requirements:

1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read/Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses. Completion of all General Education requirements and the majority of content area courses.
3. Pass group interview directed by the Secondary Teacher Education Department.
4. Pass LiveScan Criminal Background Check.

General Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2020</td>
<td>Macroeconomics (fulfills Social/Behavioral Science)</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 82 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMED 4200</td>
<td>Methods of Teaching Digital Technology</td>
<td>3</td>
</tr>
<tr>
<td>BMED 4250</td>
<td>Methods of Teaching Business and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>IM 1010</td>
<td>Basic Computer Applications</td>
<td>2</td>
</tr>
<tr>
<td>IM 2400</td>
<td>Presentation Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2500</td>
<td>Graphic Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 2600</td>
<td>Spreadsheet Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 3500</td>
<td>Desktop Publishing Applications</td>
<td>3</td>
</tr>
<tr>
<td>IM 3700</td>
<td>Database Applications</td>
<td>3</td>
</tr>
<tr>
<td>INFO 1120</td>
<td>Information Systems and Technology Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2420</td>
<td>Web Application Design</td>
<td>3</td>
</tr>
<tr>
<td>ACC 2100</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2010</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 6 Credits

Complete at least 6 credits in Marketing from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 335G</td>
<td>International Marketing (3.0)</td>
<td></td>
</tr>
<tr>
<td>MKTG 3620</td>
<td>Consumer Behavior (3.0)</td>
<td></td>
</tr>
<tr>
<td>MKTG 3630</td>
<td>Services Marketing (3.0)</td>
<td></td>
</tr>
<tr>
<td>MKTG 3650</td>
<td>Professional Selling (3.0)</td>
<td></td>
</tr>
<tr>
<td>MKTG 3660</td>
<td>Digital Marketing (3.0)</td>
<td></td>
</tr>
<tr>
<td>MKTG 3670</td>
<td>Advertising and Promotion (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of 124 semester credit hours with at least 40 credit hours in upper-division courses.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Participation in PBL or DEX is highly recommended for at least one semester since students will be involved with these student organizations during their teaching career.

Business/Marketing Education, B.S.

Careers

Secondary Education Business and Marketing teacher

Related Careers

- Business Teachers, Postsecondary
- Education Teachers, Postsecondary
- Vocational Education Teachers, Postsecondary
- Career/Technical Education Teachers, Middle School
- Career/Technical Education Teachers, Secondary School
Information Management, B.S.

Requirements

Total Program Credits: 123

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3

or

- ENGL 2020 Intermediate Writing--Science and Technology (3.0)

- MATH 1050 College Algebra (4.0) 4

Complete one of the following: 3

- HIST 2700 US History to 1877 (3.0)
- and
- HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3
- HLTH 1100 Personal Health and Wellness 2
- or
- PES 1097 Fitness for Life (2.0)

Distribution Courses:

- Biology Distribution 3
- Physical Science Distribution 3
- An Additional Biology or Physical Science Distribution Course 3
- Fine Arts Distribution 3
- Humanities Distribution 3
- ECON 2010 Microeconomics (fulfills Social/Behavioral Science) (3.0)

or

- ECON 2020 Macroeconomics (3.0)

Complete the following:

- IM 1060 Fundamentals of Computing Technologies 2
- IM 2100 Document Processing Applications 3
- IM 2300 Information Management Principles 3
- IM 2400 Presentation Applications 3
- IM 2500 Graphic Applications 3

Elective Requirements: 15 Credits

- Complete at least 9 credits from a selected domain (at least 3 credits must be upper-division):

  **Business Intelligence Domain**
  - INFO 2410 Database Fundamentals (3.0)
  - INFO 3120 Business Intelligence Systems (3.0)
  - INFO 4120 Data Science and Big Data Analytics (3.0)
  - INFO 4130 Data Science and Big Data Analytics (3.0)

- Complete at least 6 credits from the following electives or from courses in domains other than the one selected:

  - IM 4100 CPS/CAP Review--Office Systems and Technology (2.0)
  - IM 4110 CPS/CAP Review--Office Administration (2.0)
  - IM 4120 CPS/CAP Review--Management (2.0)
  - IM 4130 CAP--Advanced Organizational Management (2.0)
  - IM 490R Advanced Topics in Information Management (1.0)
  - IM 496R Information Management Seminar (1.0)
  - IT 2700 Information Security Fundamentals (3.0)
  - FIN 1060 Personal Finance (3.0)
  - MGMT 2030 Women in Business (3.0)
  - TECH 3010 Creativity Innovation and Change Management (3.0)

  Other department approved IM, INFO, or IT classes

Graduation Requirements:

1. Completion of the 123 semester credit hours required in the degree with at least 40 credit hours in upper-division courses.
2. Overall grade point average 2.75 or above with no grade lower than a "C-" in core, domain, and elective courses.
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: The UVU catalog contains the descriptions and prerequisites for all courses. Not all courses are offered every semester.

Information Management, B.S.

Careers

• First-Line Supervisors of Office and Administrative Support Workers

Information Systems - Business Intelligence Systems Emphasis, B.S.

Requirements

The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. The Business Intelligence Systems (BIS) emphasis prepares graduates to become business intelligence analysts who produce financial and marketing intelligence by querying data repositories, generating reports, and devising methods for identifying data patterns and trends. Organizations store an enormous amount of data. People who are able to perform data mining and can analyze the data to detect trends and form predictions are highly sought by national and regional organizations.

Total Program Credits: 125

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>36 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050 College Algebra (4.0)</td>
<td>4</td>
</tr>
</tbody>
</table>

American Institutions: Complete one of the following: 3

HIST 2700 US History to 1877 (3.0)
and
HIST 2710 US History since 1877 (3.0)
HIST 1700 American Civilization (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)

Complete the following:

PHIL 2050 Ethics and Values (3.0) | 3 |
HLTH 1100 Personal Health and Wellness (2.0) | 2 |
or PES 1097 Fitness for Life (2.0) |

Distribution Courses:

Biology Distribution | 3 |
Physical Science Distribution | 3 |
An Additional Biology or Physical Science Distribution Course | 3 |
Fine Arts Distribution | 3 |
Humanities Distribution | 3 |
Social/Behavioral Science Distribution (ECON 2020 recommended) | 3 |

Discipline Core Requirements: 67 Credits

Math Requirement: 3

IS Core Requirements:

| STAT 2050 | Introduction to Statistical Methods (4.0) |
| or MGMT 2340 | Business Statistics I (3.0) |

IS Environment/Business Foundation Requirements:

| ACC 2010 | Financial Accounting (3.0) |
| ACC 2020 | Managerial Accounting (3.0) |
| MKTG 2200 | Written Business Communication (3.0) |
| MGMT 3000 | Organizational Behavior (3.0) |
| LEGL 3020 | Intellectual Property and Cyber Law (3.0) |
| MKTG 3600 | Principles of Marketing (3.0) |

Emphasis Requirements: 10 Credits

| STAT 2060 | Introduction to Statistical Computing (3.0) |
| INFO 3130 | Introduction to Applied Data Analytics (3.0) |
| INFO 4130 | Data Science and Big Data Analytics (3.0) |
| INFO 4440 | Enterprise Computing Environments (3.0) |

Emphasis Elective Requirements: 12 Credits

Choose 9 credit hours from the following: 9

| INFO 3422 | PHP Web Application Development (3.0) |
| INFO 3750 | Healthcare Information Systems Applications (3.0) |
| INFO 4410 | Database Administration (3.0) |
| INFO 4420 | Mobile Business Application Development (3.0) |
| INFO 459R | Current Topics in Information Systems (3.0) |
| INFO 4700 | Healthcare Information Systems Management (3.0) |
| GEOG 3600 | Introduction to Geographic Information Systems (4.0) |
| FIN 3100 | Principles of Finance (3.0) |
| MGMT 3450 | Operations Management (3.0) |
Information Systems and Technology

Choose 3 credit hours from the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 4100</td>
<td>Design of Experiment (3.0)</td>
</tr>
<tr>
<td>STAT 4200</td>
<td>Survey Sampling (3.0)</td>
</tr>
<tr>
<td>STAT 4500</td>
<td>Nonparametric Statistics (3.0)</td>
</tr>
<tr>
<td>STAT 4600</td>
<td>Statistical Process Control (3.0)</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of at least 124 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-".
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Information Systems - Business Intelligence Systems Emphasis, B.S.

Careers:
Data Scientist, Business Intelligence Analyst, Business Intelligence Developer, Computer and Information Systems Manager, Information Systems Analyst, Computer Systems Analyst, Database Administrator, Software Developer, IS Project Manager

Related Careers
• Computer and Information Systems Managers
• Computer and Information Research Scientists
• Software Developers, Systems Software
• Computer Occupations, All Other
• Computer Science Teachers, Postsecondary

Information Systems - Geographic Information Systems Emphasis, B.S.

Requirements
The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. The Geographic Information Systems (GIS) emphasis provides graduates with the hands-on experience in the types of systems used by many businesses, government, and environmental organizations in the form of mapping and decision support systems.

Total Program Credits: 124

| Course                  | Title                                           | Credits |
|-------------------------|------------------------------------------------|
| ENGL 1100               | Introduction to Writing (3.0)                   | 3       |
| ENGL 2100               | Intermediate Writing-Humanities/Social Sciences (3.0) | 3       |
| or ENGL 2100            | Intermediate Writing--Science and Technology (3.0) | 3       |
| MATH 1050               | College Algebra (4.0)                           | 4       |

American Institutions: Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
</tr>
<tr>
<td>and</td>
<td>HIST 2710</td>
</tr>
<tr>
<td></td>
<td>HIST 1700</td>
</tr>
<tr>
<td></td>
<td>HIST 1740</td>
</tr>
<tr>
<td></td>
<td>POLS 1000</td>
</tr>
</tbody>
</table>

POLS 1100 | American National Government (3.0)

Complete the following:

| Course          | Title                      | Credits |
|-----------------|----------------------------|
| PHIL 2050       | Ethics and Values (3.0)    | 3       |
| HLTH 1100       | Personal Health and Wellness (2.0) | 2       |
| or PES 1097     | Fitness for Life (2.0)     |         |

Distribution Courses:

- Biology Distribution
- Physical Science Distribution
- An Additional Biology or Physical Science Distribution Course
- Fine Arts Distribution
- Humanities Distribution
- Social/Behavioral Science Distribution (ECON 2020 recommended)

Discipline Core Requirements: 67 Credits

Math Requirement:

| Course          | Title                      | Credits |
|-----------------|----------------------------|
| STAT 2050       | Introduction to Statistical Methods (4.0) | 3       |
| or MGMT 2340    | Business Statistics I (3.0)          |         |

IS Core Requirements:

| Course          | Title                                           | Credits |
|-----------------|------------------------------------------------|
| INFO 1120       | Information Systems and Technology Fundamentals (3.0) | 3       |
| INFO 1200       | Computer Programming I for IS/IT (3.0)          | 3       |
| INFO 2200       | Computer Programming II for IS/IT (3.0)         | 3       |
| INFO 2410       | Database Fundamentals (3.0)                     | 3       |
| INFO 2420       | Web Application Design (3.0)                    | 3       |
| IT 2600         | Data Communication Fundamentals (3.0)            | 3       |
| IT 2700         | Information Security Fundamentals (3.0)          | 3       |
| COMP 301R       | Digital Lecture Series (1.0)                    | 1       |
| INFO 3120       | Management Information Systems (3.0)             | 3       |
| INFO 3410       | Database Systems and Warehousing (3.0)           | 3       |
| INFO 3420       | Web Systems Development (3.0)                    | 3       |
| INFO 3430       | Systems Analysis and Design (3.0)                | 3       |
| INFO 3700       | Health Informatics Fundamentals (3.0)            | 3       |
| INFO 405G       | Global Ethical and Professional Perspectives in IS and IT (3.0) | 3       |
| INFO 4120       | Business Intelligence Systems (3.0)              | 3       |
| INFO 4430       | Systems Design and Implementation (3.0)          | 3       |
| COMP 301R       | Digital Lecture Series (1.0)                    | 1       |

IS Environment/Business Foundation Requirements:

| Course          | Title                      | Credits |
|-----------------|----------------------------|
| ACC 2010        | Financial Accounting (3.0)  | 3       |
| ACC 2020        | Managerial Accounting (3.0) | 3       |
| MGMT 2200       | Business Communication (3.0) | 3       |
| MGMT 3000       | Organizational Behavior (3.0) | 3       |
| LEGL 3020       | Intellectual Property and Cyber Law (3.0)        | 3       |
| MKTG 3600       | Principles of Marketing (3.0)                  | 3       |

Emphasis Requirements: 15 Credits

Required geography courses (12 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>GEOG 1000</td>
<td>Introduction to Physical Geography (3.0)</td>
</tr>
<tr>
<td>GEOG 1005</td>
<td>Introduction to Physical Geography Lab (1.0)</td>
</tr>
</tbody>
</table>
Total Program Credits: 124

Information Systems Emphasis, B.S.

Requirements

The healthcare industry relies heavily on information systems to store patient information so that medical professionals can analyze the data. Information systems professionals who specialize in HIS find exciting careers. The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. Students who graduate with the Healthcare Information Systems (HIS) emphasis will use their knowledge of information technology and records management to form the links among health-care professionals and administrations and information technology professionals.

Total Program Credits: 124

Information Systems - Geographic Information Systems Emphasis, B.S.

Careers

GIS Analyst, GIS Specialist, Computer and Information Systems Manager, Information Systems Analyst, Computer Systems Analyst, Database Administrator, Software Developer, IS Project Manager

Related Careers

• Computer and Information Systems Managers
• Computer and Information Research Scientists
• Software Developers, Systems Software
• Computer Occupations, All Other
• Computer Science Teachers, Postsecondary

Information Systems - Healthcare Information Systems Emphasis, B.S.

Requirements

The healthcare industry relies heavily on information systems to store patient information so that medical professionals can analyze the data. Information systems professionals who specialize in HIS find exciting careers. The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. Students who graduate with the Healthcare Information Systems (HIS) emphasis will use their knowledge of information technology and records management to form the links among health-care professionals and administrations and information technology professionals.

Total Program Credits: 124

Information Systems and Technology

Graduation Requirements:

1. Completion of at least 124 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-.
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Information Systems - Geographic Information Systems Emphasis, B.S.

Careers

GIS Analyst, GIS Specialist, Computer and Information Systems Manager, Information Systems Analyst, Computer Systems Analyst, Database Administrator, Software Developer, IS Project Manager

Related Careers

• Computer and Information Systems Managers
• Computer and Information Research Scientists
• Software Developers, Systems Software
• Computer Occupations, All Other
• Computer Science Teachers, Postsecondary

Information Systems - Healthcare Information Systems Emphasis, B.S.

Requirements

The healthcare industry relies heavily on information systems to store patient information so that medical professionals can analyze the data. Information systems professionals who specialize in HIS find exciting careers. The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. Students who graduate with the Healthcare Information Systems (HIS) emphasis will use their knowledge of information technology and records management to form the links among health-care professionals and administrations and information technology professionals.

Total Program Credits: 124

General Education Requirements: 36 Credits

ENGL 1010 Introduction to Writing (3.0) 3

ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0) 3

or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

MATH 1050 College Algebra (4.0) 4

American Institutions: Complete one of the following:

HIST 1700 American Civilization (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)

Complete the following:

PHIL 2050 Ethics and Values (3.0) 3

HLTH 1100 Personal Health and Wellness (2.0) 2

or PES 1097 Fitness for Life (2.0)

Distribution Courses:

• Biology Distribution 3
• Physical Science Distribution 3
• An Additional Biology or Physical Science Distribution Course 3
• Fine Arts Distribution 3
• Humanities Distribution 3
• Social/Behavioral Science Distribution (ECON 2020 recommended) 3

Discipline Core Requirements: 67 Credits

Math Requirement: 3

or

STAT 2050 Introduction to Statistical Methods (4.0)

or

MGMT 2340 Business Statistics I (3.0)

IS Core Requirements:

• INFO 1120 Information Systems and Technology Fundamentals (3.0)
• INFO 1200 Computer Programming I for IS/IT (3.0)
• INFO 2200 Computer Programming II for IS/IT (3.0)
• INFO 2410 Database Fundamentals (3.0)
• INFO 2420 Web Application Design (3.0)
• IT 2600 Data Communication Fundamentals (3.0)
• IT 2700 Information Security Fundamentals (3.0)
• COMP 301R Digital Lecture Series (1.0)
• INFO 3120 Management Information Systems (3.0)
• INFO 3410 Database Systems and Warehousing (3.0)
• INFO 3420 Web Systems Development (3.0)
• INFO 3430 Systems Analysis and Design (3.0)
• INFO 3700 Health Informatics Fundamentals (3.0)
• INFO 405G Global Ethical and Professional Perspectives in IS and IT (3.0)
• INFO 4120 Business Intelligence Systems (3.0)
• INFO 4430 Systems Design and Implementation (3.0)

IS Environment/Business Foundation Requirements:
Information Systems and Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 2010</td>
<td>Financial Accounting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ACC 2020</td>
<td>Managerial Accounting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2200</td>
<td>Business Communication (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3020</td>
<td>Intellectual Property and Cyber Law (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3600</td>
<td>Principles of Marketing (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Emphasis Requirements: 15 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOOL 1090</td>
<td>Introduction to Human Anatomy and Physiology (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3750</td>
<td>Healthcare Information Systems Applications (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 4250</td>
<td>Health Services Organization and Policy (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>INFO 4700</td>
<td>Healthcare Information Systems Management (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3450</td>
<td>Operations Management (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Emphasis Elective Requirements: 6 Credits

Choose 6 credit hours from the following list of upper-division courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 4130</td>
<td>Data Science and Big Data Analytics (3.0)</td>
<td></td>
</tr>
<tr>
<td>INFO 4410</td>
<td>Database Administration (3.0)</td>
<td></td>
</tr>
<tr>
<td>INFO 4420</td>
<td>Mobile Business Application Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>INFO 4440</td>
<td>Enterprise Computing Environments (3.0)</td>
<td></td>
</tr>
<tr>
<td>INFO 459R</td>
<td>Current Topics in Information Systems (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of at least 124 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-".
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Information Systems - Healthcare Information Systems Emphasis, B.S.

Careers:

HIS Software Development Manager, HIS Clinical Development Analyst, HIS SQL Reporting Engineer, HIS Client Support Technical Analyst, Computer and Information Systems Manager, Information Systems Analyst, Computer Systems Analyst, Database Administrator, Software Developer, IS Project Manager

Related Careers:

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Software Developers, Systems Software
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Information Systems - Information Security Management Emphasis, B.S.

Requirements

Managing the security of information systems is extremely important for all types of organizations to protect the systems from data breaches. The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. The Information Security Management (ISM) emphasis prepares students for information technology management and information security analyst positions.

Total Program Credits: 124

General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
<td>4</td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 2050</td>
<td>Biology Distribution</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2050</td>
<td>Physical Science Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science Distribution Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FINE 2050</td>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>HUM 2050</td>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>SOCIAL 2050</td>
<td>Social/Behavioral Science Distribution (ECON 2020 recommended)</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 67 Credits

Math Requirement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 2050</td>
<td>Introduction to Statistical Methods (4.0)</td>
<td></td>
</tr>
<tr>
<td>or MGMT 2340</td>
<td>Business Statistics I (3.0)</td>
<td></td>
</tr>
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</table>

Information Systems Core Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 1120</td>
<td>Information Systems and Technology Fundamentals (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>INFO 1200</td>
<td>Computer Programming I for IS/IT (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2200</td>
<td>Computer Programming II for IS/IT (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2410</td>
<td>Database Fundamentals (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2420</td>
<td>Web Application Design (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>IT 2600</td>
<td>Data Communication Fundamentals (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>IT 2700</td>
<td>Information Security Fundamentals (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

368 Course Catalog 2015-2016 Utah Valley University
Information Systems and Technology

Information Technology - Computer Forensics and Security Emphasis, B.S.

Requirements

Electronic data is often used as evidence in court. Forensic specialists learn how to identify, preserve, and extract data from electronic devices, such as computers and smart phones. The Bachelor of Science in Information Technology (IT) degree prepares students to install, manage, and maintain the computing infrastructure on which organizational systems run. The Computer Forensics and Security emphasis provides students with a solid foundation for employment by government or corporate sector to work in a computer forensics lab as a forensic analyst or in information security.

Total Program Credits: 126

General Education Requirements: 38 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>3</td>
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<tr>
<td>ENGL 2010</td>
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</tr>
<tr>
<td>ENGL 1050</td>
<td>4</td>
</tr>
<tr>
<td>HIST 2700</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>3</td>
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<tr>
<td>HIST 1700</td>
<td>3</td>
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<tr>
<td>HIST 1740</td>
<td>3</td>
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<tr>
<td>POLS 1000</td>
<td>3</td>
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<tr>
<td>POLS 1100</td>
<td>3</td>
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or

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PHYS 2010</td>
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<tr>
<td>PHYS 2015</td>
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<tr>
<td>ENGL 2310</td>
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</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 1050</td>
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Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHIL 2050</td>
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<tr>
<td>HLTH 1100</td>
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</table>

or

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PES 1097</td>
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</tbody>
</table>

Distribution Courses: 38 Credits

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Biology</td>
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<tr>
<td>Physical</td>
<td>3</td>
</tr>
<tr>
<td>College</td>
<td>4</td>
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<tr>
<td>Lab</td>
<td>1</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>Technical</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

Social/Behavioral Science Distribution (CJ 1010 for Forensics emphasis) 3 Credits

Discipline Core Requirements: 64 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 2050</td>
<td>4</td>
</tr>
<tr>
<td>STAT 3050</td>
<td>2</td>
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<tr>
<td>MGMT 2200</td>
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</tr>
<tr>
<td>MGMT 2340</td>
<td>3</td>
</tr>
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</table>

Math Requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 2050</td>
<td>4</td>
</tr>
<tr>
<td>STAT 3050</td>
<td>2</td>
</tr>
<tr>
<td>MGMT 2200</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2340</td>
<td>3</td>
</tr>
</tbody>
</table>

Information Systems - Information Security Management Emphasis, B.S.

Careers

Information Security Manager, Information Systems Security Analyst, Database Administrator, Computer and Information Systems Manager, Computer Systems Analyst, Software Developer, IS Project Manager

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Software Developers, Systems Software
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary
Information Systems and Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 1120</td>
<td>Information Systems and Technology Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>INFO 1200</td>
<td>Computer Programming I for IS/IT</td>
<td>3</td>
</tr>
<tr>
<td>IT 1510</td>
<td>Introduction to System Administration--Linux/UNIX</td>
<td>3</td>
</tr>
<tr>
<td>IT 1600</td>
<td>Computer Architecture and Systems Software</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2410</td>
<td>Database Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2420</td>
<td>Web Application Design</td>
<td>3</td>
</tr>
<tr>
<td>IT 2600</td>
<td>Data Communication Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>or CS 2600</td>
<td>Computer Networks I (3.0)</td>
<td></td>
</tr>
<tr>
<td>IT 2530</td>
<td>Introduction to System Administration--Windows Client</td>
<td>3</td>
</tr>
<tr>
<td>IT 2700</td>
<td>Information Security Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>COMP 301R</td>
<td>Digital Lecture Series</td>
<td>1</td>
</tr>
<tr>
<td>INFO 3430</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>IT 3530</td>
<td>Advanced System Administration--Windows Server</td>
<td>3</td>
</tr>
<tr>
<td>IT 3540</td>
<td>Mac OS and Server Support</td>
<td>3</td>
</tr>
<tr>
<td>IT 3600</td>
<td>Internetworking and Router Management</td>
<td>3</td>
</tr>
<tr>
<td>IT 3700</td>
<td>Information Security--Network Defense and Countermeasures</td>
<td>3</td>
</tr>
<tr>
<td>INFO 405G</td>
<td>Global Ethical and Professional Perspectives in IS and IT</td>
<td>3</td>
</tr>
<tr>
<td>INFO 4430</td>
<td>Systems Design and Implementation</td>
<td>3</td>
</tr>
<tr>
<td>IT 4800</td>
<td>Enterprise Architectures and Virtualization</td>
<td>3</td>
</tr>
<tr>
<td>IT 4700</td>
<td>Enterprise Information Security Management</td>
<td>3</td>
</tr>
<tr>
<td>IT Application Domain Requirement:</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Two specified courses to provide students with knowledge of an application domain of their choice and interest. (See department adviser for list of approved courses.) For the Computer Forensics and Security emphasis, the following 2 courses are required: CJ 1330 and 2350.

Some possible application domains are:
- Accounting/IT Auditor
- Business
- Communications
- Computer Science
- Construction
- Criminal Justice (Choose this domain for Computer Forensics and Security emphasis)
- Forensics
- Geographic Information Systems
- Health professions
- Hospitality Management
- Manufacturing/Production
- Military Science
- Multimedia/Digital Media
- Physical Sciences
- Social Sciences

Emphasis Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 1340</td>
<td>Criminal Investigations</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1350</td>
<td>Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3400</td>
<td>Criminalistics</td>
<td></td>
</tr>
<tr>
<td>FSCI 3880</td>
<td>Expert Witness Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>IT 2800</td>
<td>Computer Forensic Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>IT 4800</td>
<td>Advanced Mobile Devices Forensics</td>
<td>3</td>
</tr>
<tr>
<td>IT 4850</td>
<td>Digital Forensics Investigations</td>
<td>3</td>
</tr>
</tbody>
</table>

Emphasis Elective Requirements:

Select 3 credit hours from the following:

- INFO 3410 Database Systems and Warehousing (3.0)
- INFO 3420 Web Systems Development (3.0)
- INFO 3422 PHP Web Application Development (3.0)
- IT 3510 Advanced System Administration--Linux/UNIX (3.0)
- IT 459R Current Topics in Information Technology (3.0)
- IT 4750 Network Security and Operations Capstone (3.0)

Graduation Requirements:

1. Completion of at least 126 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-".
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Completion of GE global intercultural requirement. INFO 405G satisfies this requirement.
6. Successful completion of at least one Global/Intercultural course.

Information Technology - Computer Forensics and Security Emphasis, B.S.

Careers

- Information Security Analyst, Forensic Analyst, IT Manager, IT Project Manager

Related Careers

- Computer Systems Analysts
- Information Security Analysts
- Computer Network Architects
- Computer Network Support Specialists

Information Technology - Network Administration and Security Emphasis, B.S.

Requirements

Every organization uses some form of information technology to perform its operations. The Bachelor of Science in Information Technology (IT) degree prepares students to install, manage, and maintain the computing infrastructure on which organizational systems run. The Network Administration and Security emphasis prepares students to work as data communication consultants, information security analysts, and network administrators. The core of the BS IT program prepares students to have a strong foundation in computer architecture, data communication, information security, networks, and system administration.
Total Program Credits: 126

General Education Requirements: 38 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
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<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
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</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0) (recommended for Forensics emphasis)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
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</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life (2.0)</td>
<td></td>
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</table>

Distribution Courses:

- Biology Distribution: 3
- Physical Science Distribution: 3
- PHYS 2010 College Physics I (fulfills Additional Biology or Physical Science Distribution): 4
- and PHYS 2015 College Physics I Lab: 1
- Fine Arts Distribution: 3
- ENGL 2310 Technical Communication (fulfills Humanities Distribution): 3
- Social/Behavioral Science Distribution (CJ 1010 for Forensics emphasis): 3

Discipline Core Requirements: 64 Credits

Math Requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 2050</td>
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<tr>
<td>or MGMT 2340</td>
<td>Business Statistics I</td>
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IT Core Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>INFO 1120</td>
<td>Information Systems and Technology Fundamentals</td>
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</tr>
<tr>
<td>INFO 1200</td>
<td>Computer Programming I for IS/IT</td>
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</tr>
<tr>
<td>IT 1510</td>
<td>Introduction to System Administration--Linux/UNIX</td>
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<tr>
<td>IT 1600</td>
<td>Computer Architecture and Systems Software</td>
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<tr>
<td>INFO 2410</td>
<td>Database Fundamentals</td>
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<td>INFO 2420</td>
<td>Web Application Design</td>
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<tr>
<td>IT 2600</td>
<td>Data Communication Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>or CS 2600</td>
<td>Computer Networks I (3.0)</td>
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<tr>
<td>IT 2530</td>
<td>Introduction to System Administration--Windows Client</td>
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<td>IT 2700</td>
<td>Information Security Fundamentals</td>
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Emphasis Requirements: 9 Credits

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<td>Computer Programming II for IS/IT</td>
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<td>IT 2400</td>
<td>Voice and Data Cabling Fundamentals</td>
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<tr>
<td>IT 3510</td>
<td>Advanced System Administration--Linux/UNIX</td>
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Emphasis Elective Requirements: 15 Credits

Choose 15 credit hours from the following: (9 credits must be 3000 or higher)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IT 2800</td>
<td>Computer Forensic Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>or FSCI 3800</td>
<td>Computer Forensics and Cyber Crime</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3410</td>
<td>Database Systems and Warehousing</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3420</td>
<td>Web Systems Development</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3422</td>
<td>PHP Web Application Development</td>
<td>3</td>
</tr>
<tr>
<td>INFO 4410</td>
<td>Database Administration</td>
<td>3</td>
</tr>
<tr>
<td>INFO 459R</td>
<td>Current Topics in Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Some possible application domains are:

- Accounting/IT Auditor
- Business
- Communications
- Computer Science
- Construction
- Criminal Justice (Choose this domain for Computer Forensics and Security emphasis)
- Forensics
- Geographic Information Systems
- Health professions
- Hospitality Management
- Manufacturing/Production
- Military Science
- Multimedia/Digital Media
- Physical Sciences
- Social Sciences

Two specified courses to provide students with knowledge of an application domain of their choice and interest. (See department adviser for list of approved courses.) For the Computer Forensics and Security emphasis, the following 2 courses are required: CJ 1330 and 2350.
Information Systems and Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 3650</td>
<td>Information Storage and Management (3.0)</td>
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</tr>
<tr>
<td>IT 459R</td>
<td>Current Topics in Information Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>IT 4750</td>
<td>Network Security and Operations Capstone (3.0)</td>
<td></td>
</tr>
<tr>
<td>IT 4800</td>
<td>Advanced Mobile Devices Forensics (3.0)</td>
<td></td>
</tr>
<tr>
<td>IT 4850</td>
<td>Digital Forensics Investigations (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Other approved upper-division Information Technology courses

Graduation Requirements:

1. Completion of at least 126 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-".
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Completion of GE global intercultural requirement. INFO 405G satisfies this requirement.
6. Successful completion of at least one Global/Intercultural course.

Information Technology - Network Administration and Security Emphasis, B.S.

Careers


Related Careers

- Computer Systems Analysts
- Information Security Analysts
- Computer Network Architects
- Computer Network Support Specialists
Information Systems and Technology Graduate Studies

College of Technology & Computing

- Dean: Michael Savoie
- Office: CS 720c
- Telephone: 801-863-8237
- E-mail: msavoie@uvu.edu

Graduate Certificate in Cyber Security

- Department Chair: Keith Mulbery
- Office: CS 601g
- Telephone: 801-863-8843
- Email: Keith.Mulbery@uvu.edu

- Coordinator: Robert Jorgensen
- Office: CP 636e
- Telephone: 801-863-5282
- Email: Robert.Jorgensen@uvu.edu

- Advisor: Julie Harps
- Office: CS 635
- Telephone: 801-863-8403
- Email: JHarps@uvu.edu

Program Description

The Graduate Certificate in Cyber Security at Utah Valley University is a post-baccalaureate program for students who wish to complete advanced studies in the field of cyber security. This program is designed to provide students with advanced technical and managerial knowledge of cyber security, preparing them for senior technical and leadership roles in the field. Coursework includes a balanced approach, combining critical analysis of cyber security theory with hands-on education for essential applied cyber security techniques and tools.

The program takes two semesters to complete the 18 credits of graduate level courses. Courses include cyber security operations, advanced network defense, cyber security management, case studies, secure coding, ethical hacking, and the legal and privacy implications of cyber security.

To be successful, students should have a strong background in technology. Students should have completed undergraduate work in a related field or have applicable work experience. For those who do not meet this requirement, select undergraduate courses are available to provide the foundational knowledge needed. Please contact the academic advisor for more information.

Admission Requirements

Potential students must apply for admission into the program. To be accepted, students must have completed a Bachelor’s degree, preferably in Information Systems, Information Security, Information Technology, or Computer Science. However, applicants who have a Bachelor’s degree in another field may be admitted to the program if they also have at least two years of IT or cyber security industry experience and have completed undergraduate courses in data communication, programming, and servers.

2015-16 Graduate—Tuition and General Fee Schedule

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Resident</th>
<th>NON-RESIDENT</th>
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<tbody>
<tr>
<td></td>
<td>Tuition</td>
<td>Fees</td>
</tr>
<tr>
<td>0.5</td>
<td>131.50</td>
<td>17.50</td>
</tr>
</tbody>
</table>
| 1.0          | 263.00   | 35.00        | 298.00       | 1.0      | 802.00       | 35.00        | 837.00

For each credit hour over 12, $263 per credit hour will be assessed for residents and $350 per credit hour for non-residents.

FACULTY

HAMDAN, Basil  Assistant Professor
JORGENSEN, Robert M. Sr. Professional In Residence

Course Descriptions

Information Technology………………………………………………………………667

Degrees & Programs

Cyber Security, Graduate Certificate

Requirements

The Graduate Certificate in Cyber Security at Utah Valley University is a post-baccalaureate program for students who wish to complete advanced studies in the field of cyber security. This program is designed to provide students with advanced technical and managerial knowledge of cyber security, preparing them for senior technical and leadership roles in the field. Coursework includes a balanced approach, combining critical analysis of cyber security theory with hands-on education for essential applied cyber security techniques and tools.

The program takes two semesters to complete the 18 credits of graduate level courses. Courses include cyber security operations, advanced network defense, cyber security management, case studies, secure coding, ethical hacking, and the legal and privacy implications of cyber security.

To be successful, students should have a strong background in technology. Students should have completed undergraduate work in a related field or have applicable work experience. For those who do not meet this requirement, select undergraduate courses are available to provide the foundational knowledge needed. Please contact the academic advisor for more information.
Total Program Credits: 18

Matriculation Requirements:
1. Application for admission to the program.
3. 2 years of IT or IT security industry experience (if Bachelor's degree in non-related field).
4. Completion of undergraduate courses in data communication, programming, and servers.

Discipline Core Requirements: 12 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 5700</td>
<td>Principles of Cyber Security</td>
<td>3</td>
</tr>
<tr>
<td>IT 5710</td>
<td>Cyber Security Operations</td>
<td>3</td>
</tr>
<tr>
<td>IT 5752</td>
<td>Law, Ethics, and Privacy in Cyber Security</td>
<td>3</td>
</tr>
<tr>
<td>IT 6760</td>
<td>Case Studies in Cyber Security</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 6 Credits

Choose 6 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 6740</td>
<td>Advanced Network Defense and Countermeasures (3.0)</td>
<td></td>
</tr>
<tr>
<td>IT 6770</td>
<td>Cyber Security Management (3.0)</td>
<td></td>
</tr>
<tr>
<td>IT 6780</td>
<td>Secure Coding (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 18 credits.
2. Overall grade point average of 3.0 (B) or above.
3. Residency hours -- minimum of 5 credit hours through course attendance at UVU.
4. Courses and project requirements must be finished within a five-year period. No courses will apply toward graduation which are older than five years.

Cyber Security, Graduate Certificate

Careers
Cyber security is a critical part of our digitally connected lives. From the public sector to private industry, organizations are seeking cyber security professionals to protect their critical data. In addition to cyber security specialists, there is a demand for other technology and business leaders to have a solid understand of the principles and application of cyber security.

Related Careers
- Computer and Information Systems Managers
- Information Security Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Network Support Specialists
Integrated Studies

Name: Integrated Studies
Location: CB 311
Telephone: 801-863-8455
Email: mark.olson@uvu.edu
Web Address: uvu.edu/is
Chair: Wayne Hanewicz
Chair UVU Email: hanewiwa@uvu.edu

Mission Statement

The Program in Integrated Studies serves students with interests and capabilities in more than one scholarly discipline. The degree trades disciplinary depth for breadth and for cross-disciplinary research and writing that culminate in a senior thesis. The Program encourages and supports interdisciplinary study across campus.

Special Program Characteristics

- Students engage in interdisciplinary work that culminates in a senior thesis.
- Students receive one-on-one feedback from multiple faculty advisors throughout their senior thesis process.
- Students completing the Integrated Studies degree have developed skills in thinking, problem solving, collaborative work, gathering and analyzing data, writing, and speaking, and have done so on the foundation of solid (but not exhaustive) disciplinary emphases.
- Faculty do campus-wide interdisciplinary work that includes team teaching across disciplines and collaborative projects.
- The campus and local community benefit from our lecture series and our interdisciplinary conferences, as well as from our student-published journal.

Integrated Studies

• Advisor: Lynne Hetzel
• Location: CB 506D
• Telephone: 801-863-8455
• Email: lynnhe@uvu.edu
• Appointments: Please call 801-863-8455
• Administrative Support: Mark Olson
• Telephone: 801-863-5888
• Email: mark.olson@uvu.edu
• Mail Stop: 145A

Curriculum

The individualized nature of the Integrated Studies degree is attractive to students with multiple interests. Students integrate course work in emphases such as biology, earth science, business, health, literature, languages, communication, philosophy, psychology, sociology, anthropology, and the arts. Emphases from computer science and information systems, accounting, technology management, and physical education are also offered as part of this degree.

Summary of the Degree

• After becoming familiar with the material on the IS website, meet with advisors to plan course work. Various emphases may require specific courses and minimum grades. 2.5 GPA required for application.
• Become matriculated into Integrated Studies by submitting an academic plan which must be signed by department advisors and the Integrated Studies committee.
• Complete two approved 18-21 credit hour emphases from the following colleges/schools: College of Humanities and Social Sciences; College of Science and Health; College of Technology and Computing; School of the Arts; Woodbury School of Business. More than 40 emphasis areas are available. For a list, please visit www.uvu.edu/is.
• Complete the Integrated Studies Discipline Core with a minimum grade of C- in each class.
• Complete forty hours of upper-division course work as part of the requirements in the emphasis areas & IS Core.
• Complete thirty hours of course work in residency at UVU; at least 10 of these must be completed at UVU within the last 45 credit hours earned.
• For a Bachelor of Arts degree, students must complete the 202G/2020 class in the chosen foreign language. For a Bachelor of Science degree, students must complete either MATH 1210 or MATH 2040 or BESC 3010 or MGMT 2340.

FACULTY

ABBOTT, Scott Professor
ABUNUWARA, Kim Assistant Professor
CLARKE, Alan Professor
HANEWICZ, Wayne B. Professor
JACKSON, Gregory Richard Lecturer

Course Descriptions

Integrated Studies............................................................................................................. 666

Degrees & Programs

Integrated Studies, A.A.

Requirements

The individualized nature of the Integrated Studies degree is attractive to students with multiple interests. Students integrate course work in emphases such as biology, earth science, business, health, literature, languages, communication, philosophy, psychology, sociology, anthropology, and the arts. Emphases from computer science and information systems, accounting, technology management, and physical education are also offered as part of this degree.

Total Program Credits: 60

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2010 Intermediate Writing—Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1030 Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>or MATH 1040 Introduction to Statistics (3.0)</td>
<td></td>
</tr>
<tr>
<td>or MATH 1050 College Algebra (4.0)</td>
<td></td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700 US History to 1877 (3.0) and HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>or HIST 1700 American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>or HIST 1740 US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>or POLS 1000 American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>or POLS 1100 American National Government (3.0)</td>
<td></td>
</tr>
<tr>
<td>Complete the following:</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>or HLTH 1100 Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses
Integrated Studies

<table>
<thead>
<tr>
<th>Biology</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements:** 17 Credits
- Complete any courses 1000 or higher (if planning to complete a BA degree, see advisor for list of recommended courses) 17

**Elective Requirements:** 8 Credits
- One Language (other than English) to include the 1010 or 1020 levels. 8

**Graduation Requirements:**
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

**Integrated Studies, A.A.**

**Careers**
For those completing the bachelor degree in Integrated Studies, various opportunities exist for advanced academic and professional degrees (a wide variety of MA and PhD programs, law school, medical and dental schools, MBA, MPA, etc.) and in the business environment. Many employers seek students with skills gained from liberal arts programs like Integrated Studies. These skills include general problem solving, the ability to comprehend diverse material, to write clearly, to think critically, and to work cooperatively.

**Related Careers**
- NO MATCH

**Integrated Studies, A.S.**

**Careers**
The individualized nature of the Integrated Studies degree is attractive to students with multiple interests. Students integrate course work in emphases such as biology, earth science, business, health, literature, languages, communication, philosophy, psychology, sociology, anthropology, and the arts. Emphases from computer science and information systems, accounting, technology management, and physical education are also offered as part of this degree.

**Total Program Credits: 60**

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing—Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing—Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1030 Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040 Introduction to Statistics (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

**IS Emphasis in Accounting**

**Requirements**
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

**Total Program Credits: 18**

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 3010 Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 3300 Cost Management</td>
<td>3</td>
</tr>
</tbody>
</table>
Integrated Studies

Course Catalog 2015-2016

Utah Valley University

Choose 12 credits from the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 3020</td>
<td>Intermediate Accounting II</td>
<td>3.0</td>
</tr>
<tr>
<td>ACC 3400</td>
<td>Individual Income Tax</td>
<td>3.0</td>
</tr>
<tr>
<td>ACC 3510</td>
<td>Accounting Information Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>ACC 4110</td>
<td>Auditing</td>
<td>3.0</td>
</tr>
<tr>
<td>ACC 4400</td>
<td>Taxation of Corporations/Partnerships/Estates and</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>Trusts</td>
<td></td>
</tr>
<tr>
<td>or ACC 4420</td>
<td>Corporate Tax</td>
<td>3.0</td>
</tr>
</tbody>
</table>

NOTE: A minimum of 2.5 GPA in all Woodbury School of Business courses, and no grade lower than a C-, required for graduation.

IS Emphasis in American Indian Studies

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

Discipline Core Requirements: 6 Credits

Complete the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 180G</td>
<td>Introduction to American Indian Studies</td>
<td>3.0</td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 180G</td>
<td>Introduction to American Indian Studies</td>
<td>3.0</td>
</tr>
</tbody>
</table>

AIST 4600 | Contemporary American Indian Political and Social Issues | 3.0 |

Elective Requirements: 12 Credits

Complete four of the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIST 490R</td>
<td>Special Topics in American Indian Studies</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH 3300</td>
<td>Development and Rural Societies</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH 3450</td>
<td>Shamanism and Indigenous Religion</td>
<td>3.0</td>
</tr>
<tr>
<td>BESC 4030</td>
<td>Introduction to Practice Evaluation and Grant Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 357G</td>
<td>Native American Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 327G</td>
<td>Indians of Utah</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 381G</td>
<td>Pre-Columbian America</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 382G</td>
<td>Indians of Eastern North America</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 383G</td>
<td>Indians of the Great Plains</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 384G</td>
<td>Indians of the Southwest</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 385G</td>
<td>The Struggle for Self-determination--American Indians 1891 to present</td>
<td>3.0</td>
</tr>
<tr>
<td>AIST 358G</td>
<td>American Indian Health Policy</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 359G</td>
<td>American Indian Law and Tribal Government</td>
<td>3.0</td>
</tr>
</tbody>
</table>

IS Emphasis in American Sign Language

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

Discipline Core Requirements: 6 Credits

Complete the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL 1010</td>
<td>Beginning American Sign Language I</td>
<td>4.0</td>
</tr>
<tr>
<td>ASL 1020</td>
<td>Beginning American Sign Language II</td>
<td>4.0</td>
</tr>
<tr>
<td>ASL 2010</td>
<td>Intermediate American Sign Language I</td>
<td>4.0</td>
</tr>
<tr>
<td>ASL 2020</td>
<td>Intermediate American Sign Language II</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Elective Requirements: 12 Credits

Complete 12 credits from any 3000 or 4000 level ASL or LANG courses not already taken.

IS Emphasis in American Indian Studies

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

Discipline Core Requirements: 9 Credits

Complete the following: 9

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMST 2000</td>
<td>Introduction to American Studies</td>
<td>3.0</td>
</tr>
<tr>
<td>AMST 300R</td>
<td>Topics in American Studies</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Elective Requirements: 9 Credits

Complete nine hours of advisor-approved electives. Elective courses should reflect a specific topical or thematic focus and must be approved by an American Studies advisor.

IS Emphasis in Anthropology

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 19

Discipline Core Requirements: 19 Credits

Prerequisite - Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101G</td>
<td>Social/Cultural Anthropology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1020</td>
<td>Biological Anthropology</td>
<td>3.0</td>
</tr>
<tr>
<td>BESC 3010</td>
<td>Statistics for the Behavioral Sciences</td>
<td>4.0</td>
</tr>
<tr>
<td>ANTH 4120</td>
<td>History of Anthropological Thought</td>
<td>3.0</td>
</tr>
<tr>
<td>or ANTH 4130</td>
<td>Contemporary Theory and Debates</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH 3850</td>
<td>Ethnographic Methods</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Complete 6 additional credits in Anthropology. Three credits must be upper division.

IS Emphasis in Anthropology

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 19

Discipline Core Requirements: 19 Credits

Prerequisite - Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101G</td>
<td>Social/Cultural Anthropology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1020</td>
<td>Biological Anthropology</td>
<td>3.0</td>
</tr>
<tr>
<td>BESC 3010</td>
<td>Statistics for the Behavioral Sciences</td>
<td>4.0</td>
</tr>
<tr>
<td>ANTH 4120</td>
<td>History of Anthropological Thought</td>
<td>3.0</td>
</tr>
<tr>
<td>or ANTH 4130</td>
<td>Contemporary Theory and Debates</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH 3850</td>
<td>Ethnographic Methods</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Complete 6 additional credits in Anthropology. Three credits must be upper division.
**ANTH 101G is an introductory course and pre-requisite which may not be used in the 19 hours required for these Integrated Studies Emphases.

**Footnote**

IS Emphasis in Art History

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 2710</td>
<td>History of Art to the Renaissance 3</td>
</tr>
<tr>
<td>ARTH 2720</td>
<td>History of Art from the Renaissance 3</td>
</tr>
<tr>
<td>Complete 12 credits from the following courses:</td>
<td>12</td>
</tr>
<tr>
<td>ARTH 3015</td>
<td>Ancient Art of Egypt and the Near East (3.0)</td>
</tr>
<tr>
<td>ARTH 3020</td>
<td>Classical Art and Architecture History (3.0)</td>
</tr>
<tr>
<td>ARTH 3030</td>
<td>Medieval Art and Architecture History (3.0)</td>
</tr>
<tr>
<td>ARTH 3040</td>
<td>Renaissance Art History (3.0)</td>
</tr>
<tr>
<td>ARTH 3050</td>
<td>Baroque Art and Architecture History (3.0)</td>
</tr>
<tr>
<td>ARTH 3060</td>
<td>Nineteenth-Century Art History (3.0)</td>
</tr>
<tr>
<td>ARTH 3070</td>
<td>Modern Art and Architecture History (3.0)</td>
</tr>
<tr>
<td>ARTH 381R</td>
<td>Art History Seminar (3.0)</td>
</tr>
</tbody>
</table>

IS Emphasis in Biology

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites (see Advisor):</td>
<td></td>
</tr>
<tr>
<td>BIOL 1610</td>
<td>College Biology I (4.0)</td>
</tr>
<tr>
<td>BIOL 1615</td>
<td>College Biology I Laboratory (1.0)</td>
</tr>
<tr>
<td>CHEM 1110</td>
<td>Elementary Chemistry for the Health Sciences (4.0)</td>
</tr>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>BIOL 1620</td>
<td>College Biology II 3</td>
</tr>
<tr>
<td>BIOL 1625</td>
<td>College Biology II Laboratory 1</td>
</tr>
<tr>
<td>BIOL 4500</td>
<td>Principles of Evolution 3</td>
</tr>
<tr>
<td>Complete 11 credits (minimum of 9 credits must be upper-division) from any BIOL, BOT, MICR, or ZOOL courses except BIOL 1010, ZOOL 1090, BIOL 494R, BIOL 489R, BIOL 495R, or BIOL 499R.</td>
<td>11</td>
</tr>
</tbody>
</table>

IS Emphasis in Business Management

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites:</td>
<td></td>
</tr>
<tr>
<td>ACC 2010</td>
<td>Financial Accounting (3.0)</td>
</tr>
<tr>
<td>and ACC 2020</td>
<td>Managerial Accounting (3.0)</td>
</tr>
<tr>
<td>or ACC 2030</td>
<td>Principles of Accounting (6.0)</td>
</tr>
<tr>
<td>or ACC 3000</td>
<td>Financial Managerial and Cost Accounting Concepts (3.0)</td>
</tr>
<tr>
<td>IM 2010</td>
<td>Business Computer Proficiency (3.0)</td>
</tr>
<tr>
<td>or Business Computer Proficiency Exam *</td>
<td></td>
</tr>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>INFO 3120</td>
<td>Management Information Systems 3</td>
</tr>
<tr>
<td>ECON 2020</td>
<td>Macroeconomics (3.0)</td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior 3</td>
</tr>
<tr>
<td>MKTG 3600</td>
<td>Principles of Marketing 3</td>
</tr>
<tr>
<td>Complete 6 credits from the following:</td>
<td>6</td>
</tr>
<tr>
<td>LEGL 3000</td>
<td>Business Law (3.0)</td>
</tr>
<tr>
<td>ECON 2010</td>
<td>Microeconomics (3.0)</td>
</tr>
<tr>
<td>FIN 3100</td>
<td>Principles of Finance (3.0)</td>
</tr>
<tr>
<td>MGMT 330G</td>
<td>Survey of International Business (3.0)</td>
</tr>
<tr>
<td>MGMT 3430</td>
<td>Human Resource Management (3.0)</td>
</tr>
</tbody>
</table>

Note: A minimum of 2.5 GPA in all Woodbury School of Business courses, and no grade lower than a C-, required for graduation.

IS Emphasis in Cinema Studies

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>9 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2150</td>
<td>Critical Introduction to Cinema Studies 3</td>
</tr>
<tr>
<td>THEA 2311</td>
<td>Film History I 3</td>
</tr>
<tr>
<td>or THEA 2312</td>
<td>Film History II (3.0)</td>
</tr>
<tr>
<td>ENGL 3150</td>
<td>Film Theory 3</td>
</tr>
<tr>
<td>Elective Requirements:</td>
<td></td>
</tr>
<tr>
<td>Complete an additional 9 hours of advisor-approved electives. Six (6) of the 9 hours must be upper-division (see coordinator for a list of approved electives).</td>
<td>9</td>
</tr>
</tbody>
</table>

IS Emphasis in Classical Studies

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18
Discipline Core Requirements: 9 Credits

- PHIL 2110 Ancient Greek Philosophy 3
- HIST 3110 Greek History 3

Roman History Set (complete 3 credits from the following) 3

- HIST 3130 Roman Republic (3.0)
- HIST 3140 Roman Empire (3.0)

Elective Requirements: 9 Credits

In addition to the 9 credits of core requirements, students must complete an additional 9 hours of electives. The following list of courses has been approved for the Classical Studies IS Emphasis. If a course that is not represented on the following list has sufficient classical studies related content, the student may seek approval from the Classical Studies Coordinator to have the course count toward the IS Emphasis. Note: Latin or Greek language coursework applied toward a Student's foreign language requirement will not be applied toward Classical Studies elective requirements.

- ANTH 2030 Archeological Method and Theory (3.0)
- ARCH 1100 Introduction to Archaeology (3.0)
- ARTH 2710 History of Art to the Renaissance (3.0)
- ARTH 3020 Classical Art and Architecture History (3.0)
- ENGL 2230 Myths and Legends in Literature (3.0)
- ENGL 3610 Medieval Literature (3.0)
- ENGL 376G World Literature (3.0)
- HIST 3130 Roman Republic (3.0)
- HIST 3140 Roman Empire (3.0)
- HONR 2000 Ancient Legacies (3.0)
- HUM 2010 World History Through the Arts I (3.0)
- HUM 2500 Introduction to Ancient Greek I (6.0)
- HUM 2510 Introduction to Ancient Greek II (6.0)
- PHIL 2130 Medieval Philosophy (3.0)
- PHIL 386R Topics in Ancient Philosophy (3.0)
- GRK 1010 Beginning Ancient Greek I (4.0)
- GRK 1020 Beginning Ancient Greek II (4.0)
- GRK 2010 Intermediate Ancient Greek I (4.0)
- GRK 2020 Intermediate Ancient Greek II (4.0)
- GRK 3010 Readings in Ancient Greek (3.0)
- LATN 1010 Beginning Latin I (4.0)
- LATN 1020 Beginning Latin II (4.0)
- LATN 2010 Intermediate Latin I (4.0)
- LATN 2020 Intermediate Latin II (4.0)
- LATN 3010 Readings in Latin (3.0)

IS Emphasis in Communication

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

IS Emphasis in Community Health

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18
Discipline Core Requirements: 18 Credits

Complete the following:

- HLTH 3200 Principles of Community Health (3)
- HLTH 3220 Foundations of Health Education (3)
- HLTH 3400 Human Diseases (3)

or

- HLTH 3800 Epidemiology (3.0)
- HLTH 4300 Community Health Ethics (3)

or

- HLTH 4600 Research Methods for Community Health (3.0)

Choose 6 credits from the following: 6

- NUTR 1020 Foundations of Human Nutrition (3.0)
- NUTR 2020 Nutrition Through the Life Cycle (3.0)
- HLTH 2400 Concepts of Stress Management (3.0)
- HLTH 2600 Drugs Behavior and Society (3.0)
- HLTH 2800 Human Sexuality (3.0)
- HLTH 3000 Health Concepts of Death and Dying (3.0)
- HLTH 3150 Culture Ecology and Health (3.0)
- HLTH 3240 Womens Health Issues (3.0)
- HLTH 3250 Consumer Health (3.0)
- HLTH 3260 Modifying Health Behavior (3.0)
- HLTH 3300 Health Promotion for Older Adults (3.0)

Note: A minimum of 2.5 GPA in all Specialty Core courses with no grade lower than a C- required for graduation.

IS Emphasis in Computer Networking

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

Discipline Core Requirements: 18 Credits

Complete one of the following: 3

- CS 3250 Java Software Development (3.0)
- CS 3370 C-plus-plus Software Development (3.0)

Choose 15 credits from the following: 15

- CS 3240 Discrete Mathematical Structures II (3.0)
- CS 3250 Java Software Development (3.0)
- CS 3370 C-plus-plus Software Development (3.0)
- CS 2450 Software Engineering (3.0)
- CS 4380 Advanced/High-Performance Computer Architecture (3.0)
- CS 4450 Analysis of Programming Languages (3.0)
- CS 4490 Compiler Construction (3.0)

Note: A minimum GPA of 2.5 in all Specialty Core courses with no grade lower than a C- required for graduation.

IS Emphasis in Digital Media

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

Discipline Core Requirements: 18 Credits

Prerequisite courses:

- DGM 1110 Digital Media Essentials I (4.0)
- DGM 2130 Digital Audio Essentials (3.0)
- DGM 2110 Digital Motion Picture Essentials (3.0)
- DGM 2210 3D Modeling and Animation Essentials (4.0)
IS Emphasis in Earth Science

Requirements
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 1010  Introduction to Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 1015  Introduction to Geology Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>Complete one of the following sets (lab is highly recommended)</td>
<td>3</td>
</tr>
<tr>
<td>GEO 1220  Historical Geology (3.0)</td>
<td></td>
</tr>
<tr>
<td>and GEO 1225  Historical Geology Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>or GEO 1080  Introduction to Oceanography (3.0)</td>
<td></td>
</tr>
<tr>
<td>and GEO 1085  Introduction to Oceanography Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>or METO 1010  Introduction to Meteorology (3.0)</td>
<td></td>
</tr>
<tr>
<td>and METO 1020  Introduction to Meteorology Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>Complete three courses from the following:</td>
<td>12</td>
</tr>
<tr>
<td>METO 3100  Climate and the Earth System (3.0)</td>
<td></td>
</tr>
<tr>
<td>and METO 1020  Introduction to Meteorology Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>or GEO 1015  Introduction to Geology Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>or GEO 1225  Historical Geology Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 3080  Earth Materials (4.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 3200  Geologic Hazards (4.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 3700  Structure and Tectonics (4.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 4500  Sedimentary Geology (4.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 4510  Paleontology (4.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 3790  Hydrology I (4.0)</td>
<td></td>
</tr>
<tr>
<td>GEOG 3600  Introduction to Geographic Information Systems (4.0)</td>
<td></td>
</tr>
</tbody>
</table>

IS Emphasis in Economics

Requirements
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>12 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2010  Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2020  Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3020  Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3830  History of Economic Thought</td>
<td>3</td>
</tr>
<tr>
<td>Elective Requirements:</td>
<td>6 Credits</td>
</tr>
<tr>
<td>Choose six hours from the following courses:</td>
<td>6</td>
</tr>
<tr>
<td>ECON 3030  Intermediate Macroeconomics (3.0)</td>
<td></td>
</tr>
<tr>
<td>ECON 3040  Environmental Economics (3.0)</td>
<td></td>
</tr>
<tr>
<td>ECON 3810  Labor Economics (3.0)</td>
<td></td>
</tr>
<tr>
<td>ECON 3820  Economic Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>ECON 4150  Public Finance (3.0)</td>
<td></td>
</tr>
<tr>
<td>ECON 4320  Mathematical Economics (3.0)</td>
<td></td>
</tr>
<tr>
<td>FIN 4100  Management of Financial Institutions (3.0)</td>
<td></td>
</tr>
<tr>
<td>FIN 4180  International Finance Management (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

IS Emphasis in English

Requirements
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>ENGL 2600  Critical Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>Complete 15 hours of upper-division ENGL courses. Course selection must be approved by English advisor.</td>
<td></td>
</tr>
</tbody>
</table>

IS Emphasis in Environmental Studies

Requirements
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>3 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENST 3000  Introduction to Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>Elective Requirements:</td>
<td>15 Credits</td>
</tr>
<tr>
<td>Electives (15 credit hours). Complete 5 of the following courses of 4 different prefixes from at least 2 different schools.</td>
<td>15</td>
</tr>
<tr>
<td>College of Humanities and Social Sciences</td>
<td></td>
</tr>
<tr>
<td>ANTH 3150  Culture Ecology and Health (3.0)</td>
<td></td>
</tr>
<tr>
<td>or HLTH 3150  Culture Ecology and Health (3.0)</td>
<td></td>
</tr>
</tbody>
</table>
### Integrated Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 3130</td>
<td>The Culture of Nature and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENST 3520</td>
<td>Environmental Sociology (3.0)</td>
<td></td>
</tr>
<tr>
<td>or SOC 3520</td>
<td>Environmental Sociology (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENV 3630</td>
<td>Introduction to Geographic Information Systems (4.0)</td>
<td></td>
</tr>
<tr>
<td>or GEOG 3600</td>
<td>Environmental History of the United States (3.0)</td>
<td></td>
</tr>
<tr>
<td>or GEOG 3800</td>
<td>Economic Geography (3.0)</td>
<td></td>
</tr>
<tr>
<td>or HIST 3800</td>
<td>Environmental History of the United States (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 3260</td>
<td>History of Utah (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 4330</td>
<td>Machines in the Making of History (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3530</td>
<td>Environmental Ethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1800</td>
<td>Our Global Community (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 3450</td>
<td>Environmental Sociology (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENV 3850</td>
<td>Environmental Policy (3.0)</td>
<td></td>
</tr>
<tr>
<td>BIO 1010</td>
<td>General Biology (3.0)</td>
<td></td>
</tr>
<tr>
<td>BIO 2500</td>
<td>Environmental Biology (3.0)</td>
<td></td>
</tr>
<tr>
<td>BIO 3700</td>
<td>General Ecology (3.0)</td>
<td></td>
</tr>
<tr>
<td>BIO 3800</td>
<td>Conservation Biology (3.0)</td>
<td></td>
</tr>
<tr>
<td>BIO 4500</td>
<td>Principles of Evolution (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENV 3280</td>
<td>Environmental Law (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENV 3630</td>
<td>Introduction to Geographic Information Systems (4.0)</td>
<td></td>
</tr>
<tr>
<td>or GEOG 3600</td>
<td>Environmental History of the United States (3.0)</td>
<td></td>
</tr>
<tr>
<td>or HIST 3800</td>
<td>History of Utah (3.0)</td>
<td></td>
</tr>
<tr>
<td>or HIST 4330</td>
<td>Machines in the Making of History (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3530</td>
<td>Environmental Ethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1800</td>
<td>Our Global Community (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 3450</td>
<td>Environmental Sociology (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3550</td>
<td>Moral Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Requirements:**

Complete 9 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 130R</td>
<td>Ethics Forum (1.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3010</td>
<td>Media Ethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>or COMM 3000</td>
<td>Media Ethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3450</td>
<td>Philosophy of Childhood (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3460</td>
<td>The Ethics of Human/Animal Relationships (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3510</td>
<td>Business and Professional Ethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3520</td>
<td>Bioethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3530</td>
<td>Environmental Ethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3540</td>
<td>Christian Ethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 357R</td>
<td>Moral Reasoning Through Case Studies: Ethics Bowl (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3700</td>
<td>Social and Political Philosophy (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3710</td>
<td>Philosophy of Law (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 450R</td>
<td>Interdisciplinary Senior Ethics Seminar (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 451R</td>
<td>Ethical Theory Seminar (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 481R</td>
<td>Internship (1.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 490R</td>
<td>Independent Study (1.0)</td>
<td></td>
</tr>
<tr>
<td>ASL 4370</td>
<td>Ethics for Interpreters (3.0)</td>
<td></td>
</tr>
<tr>
<td>BIOL 4260</td>
<td>Ethical Issues in Biology (2.0)</td>
<td></td>
</tr>
<tr>
<td>CS 305G</td>
<td>Global Social and Ethical Issues in Computing (3.0)</td>
<td></td>
</tr>
<tr>
<td>LEGL 3190</td>
<td>Legal Environment (3.0)</td>
<td></td>
</tr>
<tr>
<td>NURS 3410</td>
<td>Professional Standards of Nursing (1.0)</td>
<td></td>
</tr>
<tr>
<td>PJST 3000</td>
<td>Introduction to Peace and Justice Studies (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

**IS Emphasis in Exercise Science Requirements**

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

**Total Program Credits: 18**

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete the following:</td>
<td>5 Credits</td>
</tr>
<tr>
<td>Any PES 1000 level course except PES 1097, maximum of 1 credit may be applied to graduation</td>
<td>5</td>
</tr>
<tr>
<td>Any EXSC course 2050 or higher</td>
<td>5</td>
</tr>
</tbody>
</table>

### IS Emphasis in Ethics

**Requirements**

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

**Total Program Credits: 18**

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>9 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1000</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 1250</td>
<td>3</td>
</tr>
</tbody>
</table>
IS Emphasis in Finance

Requirements
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>9 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2010  Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2340  Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3100   Principles of Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 9 Credits
Choose nine hours from the following courses:
- FIN 3150  Financial Management (3.0)
- FIN 3400  Investment Management (3.0)
- FIN 4100  Management of Financial Institutions (3.0)
- FIN 4160  Portfolio Management (3.0)
- FIN 4170  Derivative Securities (3.0)
- FIN 4180  International Finance Management (3.0)

Matriculation Requirements:
1. Students with more than one year of in-country experience should enroll in German 3050.

Discipline Core Requirements: 18 Credits
Prerequisites (See advisor)
- GER 1010  Beginning German I (4.0)
- GER 1020  Beginning German II (4.0)
- GER 2010  Intermediate German I (4.0)
- GER 202G  Intermediate German II (4.0)

Complete 18 credits from the following:
- GER 3030  German Composition and Conversation (3.0)
- GER 3050  Advanced German (3.0)
- GER 3200  Business German (3.0)
- GER 351G  German Culture and Civilization (3.0)
- GER 380R  Topics in German Studies (3.0)
- GER 4200  Advanced Business German (3.0)
- LANG 3000  Language and Culture (3.0)
- LANG 481R  Language Internship (1.0)

IS Emphasis in French

Requirements
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose 18 credits from the following:</td>
<td>18</td>
</tr>
<tr>
<td>FREN 3030  French Composition and Conversation (3.0)</td>
<td></td>
</tr>
<tr>
<td>FREN 3040  Introduction to Literary Genres in French (3.0) *</td>
<td></td>
</tr>
<tr>
<td>or FREN 3050  Advanced French (3.0) *</td>
<td></td>
</tr>
<tr>
<td>FREN 3200  Business French (3.0)</td>
<td></td>
</tr>
<tr>
<td>FREN 351G  Culture and Civilization to 1700 (3.0)</td>
<td></td>
</tr>
<tr>
<td>FREN 352G  Culture and Civilization from 1700 (3.0)</td>
<td></td>
</tr>
<tr>
<td>FREN 3610  French Literature to 1700 (3.0)</td>
<td></td>
</tr>
<tr>
<td>FREN 3620  French Literature from 1700 (3.0)</td>
<td></td>
</tr>
<tr>
<td>FREN 4200  Advanced Business French (3.0)</td>
<td></td>
</tr>
<tr>
<td>FREN 4500  Advanced Writing in French (3.0)</td>
<td></td>
</tr>
<tr>
<td>FREN 490R  Special Topics in French (3.0)</td>
<td></td>
</tr>
<tr>
<td>GER 1010  Beginning German I (4.0)</td>
<td></td>
</tr>
<tr>
<td>GER 1020  Beginning German II (4.0)</td>
<td></td>
</tr>
<tr>
<td>GER 2010  Intermediate German I (4.0)</td>
<td></td>
</tr>
<tr>
<td>GER 202G  Intermediate German II (4.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete 18 credits from the following:
- GER 3030  German Composition and Conversation (3.0)
- GER 3050  Advanced German (3.0)
- GER 3200  Business German (3.0)
- GER 351G  German Culture and Civilization (3.0)
- GER 380R  Topics in German Studies (3.0)
- GER 4200  Advanced Business German (3.0)
- LANG 3000  Language and Culture (3.0)
- LANG 481R  Language Internship (1.0)

IS Emphasis in Graphic Design

Requirements
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose 18 credits from the following:</td>
<td>18</td>
</tr>
<tr>
<td>ART 1400  Graphic Computer Applications (3.0)</td>
<td></td>
</tr>
<tr>
<td>ART 1420  Introduction to Graphic Design (3.0)</td>
<td></td>
</tr>
<tr>
<td>ART 2400  Production Design (3.0)</td>
<td></td>
</tr>
<tr>
<td>ART 2440  Motion Graphics I (3.0)</td>
<td></td>
</tr>
<tr>
<td>ART 1410  Typography I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2430  Branding I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2480  UI/UX Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 344R  Motion Graphics II</td>
<td>3</td>
</tr>
<tr>
<td>ART 348R  UI/UX Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 3270  Digital Illustration</td>
<td>3</td>
</tr>
</tbody>
</table>

IS Emphasis in History

Requirements
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one of the following:</td>
<td>3</td>
</tr>
</tbody>
</table>

Utah Valley University
Course Catalog 2015-2016
Integrated Studies

HIST 3010  The Historian's Craft (3.0)
or
HIST 3260  History of Utah (3.0)
or
See Advisor
Complete an additional 15 credits from any HIST course 3000 or higher (see advisor)  15

IS Emphasis in Hospitality Management
Requirements
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.
Total Program Credits: 18

Discipline Core Requirements: 18 Credits
Complete the following:
HM 1130  Hotel Operations I  3
HM 3350  Hotel Operations II  3
Complete 12 credits from the following: 12
HM 3020  Hospitality Managerial Accounting (4.0)
HM 3050  Country Club Management (3.0)
HM 3150  Hospitality Finance (3.0)
HM 3200  Global Tourism (3.0)
HM 3640  Food and Beverage Controls (3.0)
HM 3710  Marketing of Hospitality Services (3.0)
HM 4550  Hospitality Industry Management (3.0)
LEGL 3100  Hospitality Law (3.0)

Note: A minimum of 2.5 GPA in all Woodbury School of Business courses, and no grade lower than a C- required for graduation.

IS Emphasis in Humanities
Requirements
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.
Total Program Credits: 18

Discipline Core Requirements: 3 Credits
HUM 3500  Approaches to Humanities  3

Elective Requirements: 15 Credits
Complete 9 credits from the following: 9
HUM 1010  Humanities Through the Arts (3.0)
or
HUM 101G  Humanities Through the Arts (3.0)
or
HUM 101H  Humanities Through the Arts (3.0)
HUM 320R  Topics in Humanities (1.0)
HUM 325R  Area Studies in Humanities (3.0)
HUM 330R  Period Studies in Humanities (3.0)
HUM 3800  Aesthetics (3.0)
HUM 400R  Humanism and Posthumanism (3.0)
HUM 401R  Forms and Genres Across the Arts (3.0)
HUM 414R  Advanced Topics in Humanities (3.0)

Complete 3 credits from the following: 3
HUM 2010  World History Through the Arts I (3.0)
or
HUM 201G  World History Through the Arts I (3.0)
or
HUM 201H  World History Through the Arts I (3.0)
HUM 203G  Art Form Focus I (3.0)
HUM 2100  Adventures of Ideas Through 1500 (3.0)
or
HUM 210H  Adventures of Ideas Through 1500 (3.0)

IS Emphasis in Leadership
Requirements
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.
Total Program Credits: 18

Discipline Core Requirements: 18 Credits
Prerequisites:
ACC 2010  Financial Accounting (3.0)
and ACC 2020  Managerial Accounting (3.0)
or ACC 2030  Principles of Accounting (6.0)
or ACC 3000  Financial Managerial and Cost Accounting Concepts (3.0)
Complete the following:
INFO 3120  Management Information Systems  3
ECON 2020  Macroeconomics  3
MGMT 3000  Organizational Behavior  3
MGMT 3020  Individual Action and Corporate Social Responsibility  3
MGMT 3500  Leadership Theory and Application  3
MKTG 3600  Principles of Marketing  3

Note: A minimum of 2.5 GPA in all Woodbury School of Business course, and no grade lower than a C- required for graduation.

IS Emphasis in Military Science
Requirements
For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.
Total Program Credits: 18

Discipline Core Requirements: 18 Credits
MILS 3200  Small Unit Leadership I  3
MILS 3210  Small Unit Leadership II  3
Integrated Studies

**Course Catalog 2015-2016**

MILS 4200  The Profession of Arms I  3
MILS 4210  The Profession of Arms II  3

**Complete one of the following:**  3
HIST 345G  The History of World War II (3.0)
HIST 3520  The United States and Vietnam--1945 to Present (3.0)
HIST 3740  American Revolution (3.0)

**Complete 3 credits from the following:**  3
COMM 3520  Public Relations Case Studies (3.0)
CJ 3040  Community Policing (3.0)
ENGL 2310  Technical Communication (3.0)
DGM 3261  Authoring for Virtual Reality Experiences (3.0)
DGM 3290  Developing Digital Media for Instruction and Training (3.0)

**MGMT 330G**  Survey of International Business (3.0)
**MGMT 332G**  Cross-Cultural Communications for International Business (3.0)
**MGMT 3430**  Human Resource Management (3.0)
**MGMT 3440**  Managing Organizations (3.0)
**POLS 3100**  Survey of International Terrorism (3.0)
**POLS 3400**  American Foreign Policy (3.0)
**POLS 3600**  International Relations of East Asia (3.0)

**Notes:**
1. Contracted Army ROTC Cadets must also satisfy the leadership laboratory and physical fitness terms of their contract in order to be commissioned officers in the US Army.
2. Military Science students who select this emphasis may not choose Physical Education, Outdoor Leadership, Leadership, or Office Management as their second emphasis.

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**IS Emphasis in Music**

**Requirements**

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

**Total Program Credits: 18**

**Discipline Core Requirements:**

18 Credits

**Prerequisites (see advisor)**

**MUSIC 1110**  Music Theory I (3.0)
**MUSIC 1120**  Music Theory II (3.0)
**MUSIC 1130**  Aural Skills I (1.0)
**MUSIC 1140**  Aural Skills II (1.0)

**Individual Musicianship Studies**

**MUSIC 250R**  Private Lessons for Music Majors  3
**MUSIC 251R**  Performance Class  3

**Complete 4 credits from the following:**

**MUSIC 320R**  Masterworks Chorale (1.0)
**MUSIC 322R**  Chamber Choir (1.0)
**MUSIC 327R**  Men's Chorus (1.0)
**MUSIC 328R**  Women's Choir (1.0)

**MUSIC 330R**  Wind Symphony (1.0)
**MUSIC 332R**  Jazz Ensemble (1.0)
**MUSIC 370R**  Symphony Orchestra (1.0)

**Complete the following:**

**MUSIC 2110**  Music Theory III  3
**MUSIC 2130**  Aural Skills III  1

**Complete 4 additional upper division credit hours of music courses**  4

---

**IS Emphasis in Office Management**

**Requirements**

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

**Total Program Credits: 18**

**Discipline Core Requirements:**

18 Credits

**Prerequisites (can fulfill elective requirements):**

**IM 1010**  Basic Computer Applications (2.0)
**IM 2600**  Spreadsheet Applications (3.0)
**IM 3700**  Database Applications (3.0)
**IM 4300**  Information Workflow Management  3

**Complete the following required courses:**

**INFO 2420**  Web Application Design  3
**IM 2300**  Information Management Principles  3
**IM 2800**  Integrated Software Projects  3
**IM 4300**  Information Workflow Management  3

**Complete 6 or more credits from the following:**

**ACC 3000**  Financial Managerial and Cost Accounting Concepts (3.0)
**IM 2100**  Document Processing Applications (3.0)
**IM 2400**  Presentation Applications (3.0)
**IM 2500**  Graphic Applications (3.0)
**LEGL 3000**  Business Law (3.0)
**MGMT 3430**  Human Resource Management (3.0)

**Graduation Requirements:**

1. A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation.

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**IS Emphasis in Peace and Justice Studies**

**Requirements**

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

**Total Program Credits: 18**

**Discipline Core Requirements:**

3 Credits

**PJST 3000**  Introduction to Peace and Justice Studies  3

**Elective Requirements:**

15 Credits

**Complete 15 credits, at least one course from each of the following areas (additional advisor approved courses may be available):**

**ACC 3000**  Financial Managerial and Cost Accounting Concepts (3.0)
**IM 2100**  Document Processing Applications (3.0)
**IM 2400**  Presentation Applications (3.0)
**IM 2500**  Graphic Applications (3.0)
**LEGL 3000**  Business Law (3.0)
**MGMT 3430**  Human Resource Management (3.0)
## Integrated Studies

### Peace, War, and Conflict:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PJST 3020</td>
<td>The Ethics of War and Peace</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 430G</td>
<td>Violence and Social Conflict in Latin America</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 3850</td>
<td>The Struggle for Self-determination--American Indians 1891-present</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 4130</td>
<td>Anti-Semitism and the Holocaust</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 3520</td>
<td>The United States and Vietnam--1945 to Present</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 3540</td>
<td>History of South Africa</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 4140</td>
<td>Genocide in the Twentieth Century</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 3100</td>
<td>Survey of International Terrorism</td>
<td>3.0</td>
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</table>

### Justice:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CJ 4160</td>
<td>Constitutional Criminal Rights</td>
<td>3.0</td>
</tr>
<tr>
<td>CJ 4200</td>
<td>Ethical Issues in Criminal Justice</td>
<td>3.0</td>
</tr>
<tr>
<td>CJ 4700</td>
<td>Comparative Criminal Justice Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 3800</td>
<td>Environmental History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>AIST 4600</td>
<td>Contemporary American Indian Political and Social Issues</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 3500</td>
<td>International Relations of the Middle East</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 3600</td>
<td>International Relations of East Asia</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 359G</td>
<td>American Indian Law and Tribal Government</td>
<td>3.0</td>
</tr>
<tr>
<td>SOC 3450</td>
<td>Environmental Sociology</td>
<td>3.0</td>
</tr>
<tr>
<td>SOC 3200</td>
<td>Race and Minority Relations</td>
<td>3.0</td>
</tr>
<tr>
<td>SOC 3460</td>
<td>Political Sociology</td>
<td>3.0</td>
</tr>
<tr>
<td>SOC 3700</td>
<td>Social Inequality</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Mediation/Conflict Resolution:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEGL 3410</td>
<td>Mediation and Negotiation</td>
<td>3.0</td>
</tr>
<tr>
<td>LEGL 4100</td>
<td>Advanced Mediation</td>
<td>3.0</td>
</tr>
<tr>
<td>LEGL 3150</td>
<td>Survey of Dispute Resolution</td>
<td>3.0</td>
</tr>
<tr>
<td>LEGL 4200</td>
<td>Domestic Mediation</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Philosophy and Religion:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 3530</td>
<td>Environmental Ethics</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 3540</td>
<td>Christian Ethics</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 3700</td>
<td>Social and Political Philosophy</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 3150</td>
<td>Philosophical Issues in Feminism</td>
<td>3.0</td>
</tr>
</tbody>
</table>

## IS Emphasis in Photography

### Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

**Total Program Credits:** 21

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>21 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 3 credits from the following:</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 1000</td>
<td>Introduction to Philosophy</td>
</tr>
<tr>
<td>PHIL 1610</td>
<td>Introduction to Western Religions</td>
</tr>
<tr>
<td>PHIL 1620</td>
<td>Introduction to Eastern Religions</td>
</tr>
<tr>
<td>PHIL 2110</td>
<td>Ancient Greek Philosophy</td>
</tr>
<tr>
<td>PHIL 2130</td>
<td>Medieval Philosophy</td>
</tr>
<tr>
<td>PHIL 2150</td>
<td>Early Modern Philosophy</td>
</tr>
<tr>
<td>PHIL 290R</td>
<td>Independent Study</td>
</tr>
<tr>
<td>PHIL 295R</td>
<td>Directed Readings</td>
</tr>
<tr>
<td>Complete 12 credits from any 3000 or 4000 level PHIL courses</td>
<td>12</td>
</tr>
</tbody>
</table>

## IS Emphasis in Psychology

### Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

**Total Program Credits:** 19

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>19 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisite - Complete the following course:</td>
<td></td>
</tr>
<tr>
<td>PSY 1010</td>
<td>General Psychology</td>
</tr>
<tr>
<td>Complete the following courses:</td>
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</tr>
<tr>
<td>PSY 2250</td>
<td>Psychology of Interpersonal Relationships</td>
</tr>
<tr>
<td>or PSY 2400</td>
<td>Positive Psychology</td>
</tr>
<tr>
<td>BESC 3010</td>
<td>Statistics for the Behavioral Sciences</td>
</tr>
<tr>
<td>BESC 3020</td>
<td>Research Methods for the Behavioral Sciences</td>
</tr>
<tr>
<td>Advanced Research - Complete one of the following courses:</td>
<td></td>
</tr>
<tr>
<td>PSY 4010</td>
<td>Experimental Psychology</td>
</tr>
<tr>
<td>SOC 4020</td>
<td>Survey Research Design</td>
</tr>
<tr>
<td>BESC 4040</td>
<td>Applied Behavioral Science Research</td>
</tr>
</tbody>
</table>
IS Emphasis in Religious Studies

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prerequisites (see Advisor)</strong></td>
<td></td>
</tr>
<tr>
<td>PHI 1610 Introduction to Western Religions (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHI 1620 Introduction to Eastern Religions (3.0)</td>
<td></td>
</tr>
<tr>
<td>or ANTH 3450 Shamanism and Indigenous Religion (3.0)</td>
<td></td>
</tr>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>PHI 3600 Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>RLST 3650 Approaches to Religious Studies</td>
<td>3</td>
</tr>
<tr>
<td>RLST 366R Issues in Religious Studies</td>
<td>3</td>
</tr>
<tr>
<td>Complete 9 credits from the following:</td>
<td></td>
</tr>
<tr>
<td>ANTH 3400 Myth Magic and Religion (3.0)</td>
<td></td>
</tr>
<tr>
<td>ANTH 3450 Shamanism and Indigenous Religion (3.0)</td>
<td></td>
</tr>
<tr>
<td>ANTH 3460 Anthropology of Mormonism (3.0)</td>
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</tr>
<tr>
<td>COMM 3780 Mormon Cultural Studies (3.0)</td>
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<tr>
<td>ENGL 374G Literature of the Sacred (3.0)</td>
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<tr>
<td>ENGL 3780 Mormon Literature (3.0)</td>
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<tr>
<td>HIST 4100 Jewish History (3.0)</td>
<td></td>
</tr>
<tr>
<td>RLST 3540 Christian Ethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>RLST 3610 Introduction to Christian Theology (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 3400 Sociology of Religion (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

IS Emphasis in Social Sciences

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 3 credits from the following courses:</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 1100 Introduction to Archaeology (3.0)</td>
<td></td>
</tr>
<tr>
<td>ECON 1010 Economics as a Social Science (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740 US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>GEOG 1300 Survey of World Geography (3.0)</td>
<td></td>
</tr>
<tr>
<td>GEOG 2100 Geography of the United States (3.0)</td>
<td></td>
</tr>
<tr>
<td>GEOG 3010 Economic Geography (3.0)</td>
<td></td>
</tr>
<tr>
<td>GEOG 3430 Political Geography (3.0)</td>
<td></td>
</tr>
<tr>
<td>GEOG 3600 Introduction to Geographic Information Systems (4.0)</td>
<td></td>
</tr>
</tbody>
</table>

IS Emphasis in Sociology

Requirements

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

Total Program Credits: 19

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>19 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisite - Complete the following course:</td>
<td></td>
</tr>
<tr>
<td>SOC 1010 Introduction to Sociology (3.0) **</td>
<td></td>
</tr>
<tr>
<td>Complete the following:</td>
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</tr>
<tr>
<td>SOC 3000 Contemporary Social Theory</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 3310 Classical Social Theory (3.0)</td>
<td></td>
</tr>
<tr>
<td>BESC 3010 Statistics for the Behavioral Sciences</td>
<td>4</td>
</tr>
<tr>
<td>BESC 3020 Research Methods for the Behavioral Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>
## Integrated Studies

**Advanced Research** - Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 4020</td>
<td>Survey Research Design</td>
<td>3</td>
</tr>
<tr>
<td>BESC 4040</td>
<td>Applied Behavioral Science Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete 6 additional credits in Sociology (SOC). Credits may be lower or upper division.

6

## IS Emphasis in Spanish

**Requirements**

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

**Total Program Credits: 18**

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 18 credits of SPAN courses numbered 3000 or higher.</td>
<td>18</td>
</tr>
</tbody>
</table>

## IS Emphasis in Technology Management

**Requirements**

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

**Total Program Credits: 18**

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completion of an AA or AS degree with at least 25 credits in a technical specialty.</td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 3000</td>
<td>Introduction to Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3010</td>
<td>Creativity Innovation and Change Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 301R</td>
<td>Technology Lecture Series</td>
<td>1.0</td>
</tr>
<tr>
<td>TECH 3400</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3700</td>
<td>Materials Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3850</td>
<td>Quality Assurance in Technology</td>
<td>3</td>
</tr>
<tr>
<td>TECH 405G</td>
<td>Global Ethical and Professional Issues in Technology</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4000</td>
<td>Reliability Engineering and Safety</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4200</td>
<td>Technology Marketing and Distribution</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4400</td>
<td>Advanced Project Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4420</td>
<td>Organization Information Technologies</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

## IS Emphasis in Theatre Arts

**Requirements**

For a complete list of program requirements see the BA Integrated Studies or the BS Integrated Studies.

**Total Program Credits: 18**

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>12 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 1033</td>
<td>Acting I</td>
</tr>
<tr>
<td>THEA 1013</td>
<td>Introduction to Theatre</td>
</tr>
<tr>
<td>THEA 1713</td>
<td>Script and Text Analysis I</td>
</tr>
<tr>
<td>THEA 3721</td>
<td>Theatre History and Literature I</td>
</tr>
</tbody>
</table>

**Elective Requirements:**

Complete six credits from 3000 or higher level THEA courses

6

## Integrated Studies, B.A.

**Requirements**

The individualized nature of the Integrated Studies degree is attractive to students with multiple interests. Students integrate course work in emphases such as biology, earth science, business, health, literature, languages, communication, philosophy, psychology, sociology, anthropology, and the arts. Emphases from computer science and information systems, accounting, technology management, and physical education are also offered as part of this degree.

**Total Program Credits: 123**

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
<th>60 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. An associate in arts or associate in science degree, or Junior status in college with approximately 60 or more credits.</td>
<td>60</td>
</tr>
<tr>
<td>2. 2.5 GPA minimum.</td>
<td>60</td>
</tr>
</tbody>
</table>

### General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>and</td>
<td>HIST 2710</td>
<td>US History since 1877</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

### Distribution Courses

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Any 202G/2020 Foreign Language course</td>
<td>4</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 300R</td>
<td>Introductory Topics in Integrated Studies</td>
<td>3</td>
</tr>
<tr>
<td>IS 350R</td>
<td>Topics in Integrated Studies</td>
<td>3</td>
</tr>
</tbody>
</table>
One additional section of 300R or 350R 3
Upper-Division Theory Course: PHIL 3000+ or other approved course 3
Upper-Division Theory Course: PHIL 3000+ or other approved course 3
IS 4980 Integrated Studies Capstone I 3
IS 4990 Integrated Studies Capstone II 3

Emphasis Requirements: 36 Credits
- Complete 1 approved Integrated Studies Emphasis (Listed below) 18
- Complete another approved Integrated Studies Emphasis (Listed below) 18

Elective Requirements: 30 Credits
- One Foreign Language (Foreign Language 202G/2020 course fulfills Humanities Distribution) 12
- Complete any 1000-level, or higher, courses 18

Graduation Requirements:
1. Completion of a minimum of 123 semester credits; a minimum of 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements; students must have "C-" or higher in the Discipline Core courses (except for the Foreign Language classes).
5. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Successful completion of at least one Global/Intercultural course.

Note: All Emphases are required to have a minimum of 9 upper-division credits (with 12 preferred).

Available IS Emphases:
- IS Emphasis in Accounting
- IS Emphasis in American Indian Studies
- IS Emphasis in American Sign Language
- IS Emphasis in American Studies
- IS Emphasis in Anthropology
- IS Emphasis in Art History
- IS Emphasis in Biology
- IS Emphasis in Business Management
- IS Emphasis in Cinema Studies
- IS Emphasis in Classical Studies
- IS Emphasis in Communication
- IS Emphasis in Community Health
- IS Emphasis in Computer Networking
- IS Emphasis in Computer Science
- IS Emphasis in Digital Media
- IS Emphasis in Earth Science
- IS Emphasis in Economics
- IS Emphasis in English
- IS Emphasis in Environmental Studies
- IS Emphasis in Ethics
- IS Emphasis in Exercise Science
- IS Emphasis in Finance
- IS Emphasis in French
- IS Emphasis in German
- IS Emphasis in Graphic Design
- IS Emphasis in History
- IS Emphasis in Hospitality Management

Integrated Studies, B.A.

Careers
For those completing the bachelor degree in Integrated Studies, various opportunities exist for advanced academic and professional degrees (a wide variety of MA and PhD programs, law school, medical and dental schools, MBA, MPA, etc.) and in the business environment. Many employers seek students with skills gained from liberal arts programs like Integrated Studies. These skills include general problem solving, the ability to comprehend diverse material, to write clearly, to think critically, and to work cooperatively.

Related Careers
- NO MATCH

Integrated Studies, B.S.

Requirements
The individualized nature of the Integrated Studies degree is attractive to students with multiple interests. Students integrate course work in emphases such as biology, earth science, business, health, literature, languages, communication, philosophy, psychology, sociology, anthropology, and the arts. Emphases from computer science and information systems, accounting, technology management, and physical education are also offered as part of this degree.

Total Program Credits: 123

Matriculation Requirements:
1. An associate in arts or associate in science degree, or Junior status in college with approximately 60 or more credits.
2. 2.5 GPA minimum.

General Education Requirements: 36 Credits
Complete the following:
- ENGL 1010 Introduction to Writing 3
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3 or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- MATH 1050 College Algebra 4

Complete one of the following: 3
- HIST 2700 US History to 1877 (3.0) and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
Integrated Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following:

- PHIL 2050 Ethics and Values 3
- HLTH 1100 Personal Health and Wellness 2
- or PES 1097 Fitness for Life (2.0)

Distribution Courses

- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Humanities Distribution 3
- Fine Arts Distribution 3
- Social/Behavioral Science 3

Discipline Core Requirements: 25 Credits

- IS 300R Introductory Topics in Integrated Studies 3
- IS 350R Topics in Integrated Studies 3
- One additional section of 300R or 350R 3
- Upper-division theory course: PHIL 3000+ or other approved course 3
- Upper-division theory course: PHIL 3000+ or other approved course 3

- MATH 1210 Calculus I (5.0) 3
- or MATH 2040 Principles of Statistics 4

- IS 4980 Integrated Studies Capstone I 3
- IS 4990 Integrated Studies Capstone II 3

Emphasis Requirements: 36 Credits

- Complete 1 approved Integrated Studies Emphasis 18
- Complete another approved Integrated Studies Emphasis 18

Elective Requirements: 26 Credits

- Complete any 1000-level, or higher, course 26

Graduation Requirements:

1. Completion of a minimum of 123 semester credits; a minimum of 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements; students must have "C-" or higher in the Discipline Core courses.
5. Successful completion of at least one Global/Intercultural course.

Note: All Emphases are required to have a minimum of 9 upper-division credits (with 12 preferred).

Available IS Emphases:

- IS Emphasis in Accounting
- IS Emphasis in American Indian Studies
- IS Emphasis in American Sign Language
- IS Emphasis in American Studies
- IS Emphasis in Anthropology
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- IS Emphasis in Business Management
- IS Emphasis in Cinema Studies
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- IS Emphasis in Exercise Science
- IS Emphasis in Finance
- IS Emphasis in French
- IS Emphasis in German
- IS Emphasis in Graphic Design
- IS Emphasis in History
- IS Emphasis in Hospitality Management
- IS Emphasis in Humanities
- IS Emphasis in Leadership
- IS Emphasis in Military Science
- IS Emphasis in Music
- IS Emphasis in Office Management
- IS Emphasis in Peace and Justice Studies
- IS Emphasis in Philosophy
- IS Emphasis in Photography
- IS Emphasis in Psychology
- IS Emphasis in Religious Studies
- IS Emphasis in Social Sciences
- IS Emphasis in Sociology
- IS Emphasis in Spanish
- IS Emphasis in Technology Management
- IS Emphasis in Theatre Arts

Integrated Studies, B.S.

Careers:

For those completing the bachelor degree in Integrated Studies, various opportunities exist for advanced academic and professional degrees (a wide variety of MA and PhD programs, law school, medical and dental schools, MBA, MPA, etc.) and in the business environment. Many employers seek students with skills gained from liberal arts programs like Integrated Studies. These skills include general problem solving, the ability to comprehend diverse material, to write clearly, to think critically, and to work cooperatively.

Related Careers

• NO MATCH
Interdisciplinary Studies Program

Name: Interdisciplinary Studies
Location: LA 114g
Telephone: 801-863-6288
Email: gosherjo@uvu.edu
Web Address: uvu.edu/idst
Chair: John C. Goshert

Mission Statement
Interdisciplinary Studies provides a framework for supporting innovative, boundary-crossing inquiry among students and faculty across campus as well as in wider intellectual and social communities. IDST coordinates existing multidisciplinary minor and emphasis programs and provides guidance and support as new programs are envisioned and established. IDST programs promote instructional excellence and offer a variety of courses and events that enhance the overall academic experience at Utah Valley University.

Interdisciplinary Studies Advisor: Lynne Hetzel
• Telephone: 801-863-6485
• Email: lynne.hetzel@uvu.edu
• Appointments: 801-863-8455

Administrative Support: Mark Olson
• Telephone: 801-863-5888
• Email: mark.olson@uvu.edu

Students who have declared a Bachelor degree may choose to add a minor in the following interdisciplinary areas:

- American Indian Studies
- American Studies
- Chinese Commerce
- Chinese Studies
- Cinema Studies
- Classical Studies
- Deaf Studies
- Environmental Studies
- Gender Studies
- Peace & Justice Studies
- Religious Studies
- Russian Studies

- American Studies
  • Coordinator: Philip Gordon
  • Email: philip.gordon@uvu.edu
  • Phone: 863-8186
  • Home Department: Communication
  • Office: LC 235

- Chinese Commerce
  • Coordinator: Hong Pang
  • Email: hong.pang@uvu.edu
  • Phone: 863-8370
  • Home Department: History and Political Science
  • Office: LA 012R

- Chinese Studies
  • Coordinator: Sam Liang
American Indian Studies, Minor

Requirements
The American Indian Studies minor provides students with academic experiences, skills, and strategies to understand the scope of American indigenous communities within scholarly and applied contexts.

Total Program Credits: 18

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 18 Credits
Complete both of the following:

- ANTH 180G Introduction to American Indian Studies (3.0)
- HIST 180G Introduction to American Indian Studies (3.0)
- AIST 4600 Contemporary American Indian Political and Social Issues (3.0)
- AMST 2000 Introduction to American Studies
- AMST 300R Topics in American Studies (3 credits, must be repeated)

Complete four of the following: 12 Credits
- AIST 490R Special Topics in American Indian Studies (3.0)
- BESC 4030 Introduction to Practice Evaluation and Grant Writing (3.0)
- ANTH 3300 Development and Rural Societies (3.0)
- ANTH 3450 Shamanism and Indigenous Religion (3.0)
- ENGL 357G Native American Literature (3.0)
- HIST 327G Indians of Utah (3.0)
- HIST 381G Pre-Columbian America (3.0)
- HIST 382G Indians of Eastern North America (3.0)
- HIST 383G Indians of the Great Plains (3.0)
- HIST 384G Indians of the Southwest (3.0)
- HIST 385G The Struggle for Self-determination--American Indians 1691 to present (3.0)
- AIST 358G American Indian Health Policy (3.0)
- POLS 359G American Indian Law and Tribal Government (3.0)

Graduation Requirements:
1. Overall GPA of 2.0 or above.
2. Residency hours—minimum of 12 credits counting towards the minor through attendance at UVU.

American Indian Studies, Minor
Careers
After completion of the minor, graduates will have received an academic background that will prepare them for relevant employment in tribal governments and other Indian organizations, state or federal agencies which serve Indian tribes and organizations, and private sector enterprises that work with Indian tribes and organizations. Graduates will have received the basic knowledge and analytical skills to enable them to pursue graduate degrees in fields related to American Indian Studies. The American Indian Studies minor will emphasize the traditional acquisition of knowledge and skills that apply to American Indian communities, a vital sense of service to these communities, and an enthusiastic pursuit of what these communities can contribute to the academy in knowledge, methods, and ethics.

Related Careers
- Area, Ethnic, and Cultural Studies Teachers, Postsecondary

American Studies, Minor

Requirements
American Studies provides students with an interdisciplinary approach to the study of American cultures. Through examination of historical, religious, and literary texts, political institutions, popular culture, film, art, and the physical landscape, students will explore how Americans create meaning in their lives and make sense of the world in which they live. By encouraging students to approach their majors from the perspective of several overlapping disciplines, American Studies courses will foster deeper critical thinking and broader contextualization.

Total Program Credits: 21

Matriculation Requirements:
1. Completion of 30 hours of credit.
2. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 9 Credits
- AMST 2000 Introduction to American Studies
- AMST 300R Topics in American Studies (3 credits, must be repeated)

Elective Requirements: 12 Credits
Complete twelve hours of advisor-approved electives. Elective courses should reflect a specific topical or thematic focus and must be approved by an American Studies advisor.

Graduation Requirements:
1. Overall grade point average of 2.0 (C) or above.
2. Residency hours—minimum of 12 credit hours through course attendance at UVU.

American Studies, Minor
Careers

An American Studies minor will offer students a strong complement to a wide variety of majors by making available an additional course of study that will help them to balance the focus of a traditional discipline with the fresh insights and breadth of interdisciplinary approaches.

Related Careers

• English Language and Literature Teachers, Postsecondary

Chinese Commerce, Minor

Requirements

The Chinese Commerce minor focuses on important aspects of Chinese commerce, language and culture. This program is designed to combine an understanding of the social, political, historical, and economic factors that make China one of the leading international powers today. As such, the minor offers proficiency in the Chinese language, augmented with cultural knowledge of the country and an introduction to international business practices. As an interdisciplinary minor, the program draws on faculty expertise from various disciplines and includes varied perspectives.

Total Program Credits: 22

Matriculation Requirements:

1. Completion of 30 hours of credit.

Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 2010</td>
<td>Intermediate Chinese I</td>
<td>4</td>
</tr>
<tr>
<td>LEGL 430G</td>
<td>International Business Law</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4620</td>
<td>Developing Business in China</td>
<td>3</td>
</tr>
<tr>
<td>POLS 2220</td>
<td>Introduction to Chinese Commerce</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 202G</td>
<td>Intermediate Chinese II (4.0)</td>
<td>4</td>
</tr>
<tr>
<td>CHIN 3050</td>
<td>Advanced Chinese (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 3200</td>
<td>Business Chinese I (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 3510</td>
<td>Chinese Culture and Civilization (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>CHST 362G</td>
<td>Traditional Chinese History (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>CHST 363G</td>
<td>Modern Chinese History (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 332G</td>
<td>Cross-Cultural Communications for International Business (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 3600</td>
<td>International Relations of East Asia (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 4200</td>
<td>Business Chinese II (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>Or other approved electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chinese Studies, Minor

Careers

• Area, Ethnic, and Cultural Studies Teachers, Postsecondary

Cinema Studies, Minor

Requirements

Cinema Studies focuses on analyzing film and the screen arts as some of the most important cultural productions of the twenty-first century. Students approach movies as cultural texts and gain an understanding of the social, political, historical, and industrial contexts that produce cinema. The minor broadens students' knowledge of how these texts shape and are shaped by culture. As an interdisciplinary program, cinema studies draws on faculty expertise from various disciplines and includes global and historical perspectives. The minor also builds personal knowledge and professional competencies.

Total Program Credits: 18

Matriculation Requirements:

1. Completion of 30 hours of credit.
2. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2150</td>
<td>Critical Introduction to Cinema Studies</td>
<td>3</td>
</tr>
<tr>
<td>CINE 2150</td>
<td>Critical Introduction to Cinema Studies (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2311</td>
<td>Film History I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2312</td>
<td>Film History II (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3150</td>
<td>Film Theory</td>
<td>3</td>
</tr>
<tr>
<td>CINE 3150</td>
<td>Film Theory (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>
Elective Requirements: 9 Credits
In addition to the 9 core requirements, students must complete an additional 9 hours of advisor-approved electives. Six (6) of the 9 hours must be upper-division (see coordinator for a list of approved electives).

Graduation Requirements:
1. Overall grade point average of 2.0 (C) or above.
2. Residency hours–minimum of 12 credit hours through course attendance at UVU.

Cinema Studies, Minor

Careers
Careers are possible in business, advertising, public relations, technical writing, educational media, film making, television, media sales & distribution, film archiving and preservation, popular journalism, and entertainment law.

Related Careers
• Art, Drama, and Music Teachers, Postsecondary
• Producers and Directors

Classical Studies, Minor

Requirements
Classical Studies focuses on the language, philosophy, art, and culture of Ancient Greece and Ancient Rome.

Total Program Credits: 18

Matriculation Requirements:
1. Completion of 30 hours of credit.

Discipline Core Requirements: 9 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2110</td>
<td>Ancient Greek Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3110</td>
<td>Greek History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 3130</td>
<td>Roman Republic (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 9 Credits
Complete an additional 9 hours of electives. The following list of courses has been approved for the Classical Studies Minor. If a course that is not represented on the following list has sufficient classical studies related content, the student may seek approval from the Classical Studies Coordinator to have the course count toward the minor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2030</td>
<td>Archeological Method and Theory (3.0)</td>
<td></td>
</tr>
<tr>
<td>ARCH 1100</td>
<td>Introduction to Archaeology (3.0)</td>
<td></td>
</tr>
<tr>
<td>ARTH 2710</td>
<td>History of Art to the Renaissance (3.0)</td>
<td></td>
</tr>
<tr>
<td>ARTH 3020</td>
<td>Classical Art and Architecture History (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 2230</td>
<td>Myths and Legends in Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3610</td>
<td>Medieval Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 376G</td>
<td>World Literature (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 3130</td>
<td>Roman Republic (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 3140</td>
<td>Roman Empire (3.0)</td>
<td></td>
</tr>
<tr>
<td>HONR 2000</td>
<td>Ancient Legacies (3.0)</td>
<td></td>
</tr>
<tr>
<td>HUM 2010</td>
<td>World History Through the Arts I (3.0)</td>
<td></td>
</tr>
<tr>
<td>HUM 2500</td>
<td>Introduction to Ancient Greek I (6.0)</td>
<td></td>
</tr>
<tr>
<td>HUM 2510</td>
<td>Introduction to Ancient Greek II (6.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 2130</td>
<td>Medieval Philosophy (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 386R</td>
<td>Topics in Ancient Philosophy (3.0)</td>
<td></td>
</tr>
<tr>
<td>LATN 1010</td>
<td>Beginning Latin I (4.0)</td>
<td></td>
</tr>
<tr>
<td>LATN 1020</td>
<td>Beginning Latin II (4.0)</td>
<td></td>
</tr>
<tr>
<td>LATN 2010</td>
<td>Intermediate Latin I (4.0)</td>
<td></td>
</tr>
<tr>
<td>LATN 2020</td>
<td>Intermediate Latin II (4.0)</td>
<td></td>
</tr>
<tr>
<td>LATN 3010</td>
<td>Readings in Latin (3.0)</td>
<td></td>
</tr>
<tr>
<td>GRK 1010</td>
<td>Beginning Ancient Greek I (4.0)</td>
<td></td>
</tr>
<tr>
<td>GRK 1020</td>
<td>Beginning Ancient Greek II (4.0)</td>
<td></td>
</tr>
<tr>
<td>GRK 2010</td>
<td>Intermediate Ancient Greek I (4.0)</td>
<td></td>
</tr>
<tr>
<td>GRK 2020</td>
<td>Intermediate Ancient Greek II (4.0)</td>
<td></td>
</tr>
<tr>
<td>GRK 3010</td>
<td>Readings in Ancient Greek (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Overall grade point average of 2.0 (C) or above.
2. Residency hours–minimum of 12 credit hours through course attendance at UVU.

Deaf Studies, Minor

Requirements
In the Deaf Studies minor, students will examine elements of what culturally-Deaf people in America have traditionally called "the Deaf-World" with special attention to the framework of meaning from within which culturally-Deaf people interpret what it means to be Deaf. This minor challenges students to approach cultural descriptions critically, and provides a historical, cultural, and linguistic foundation.

Total Program Credits: 21

Matriculation Requirements:
1. Declaration of a major in a bachelor degree program at UVU
2. Completion of ASL 202G or equivalent

Discipline Core Requirements: 21 Credits

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL 3050</td>
<td>Advanced American Sign Language (3.0)</td>
<td></td>
</tr>
<tr>
<td>ASL 3530</td>
<td>Deaf Culture from 1970 (3.0)</td>
<td></td>
</tr>
<tr>
<td>ASL 3610</td>
<td>ASL Literature I (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete additional 12 credits of upper-division ASL or LANG coursework

Graduation Requirements:
1. Overall GPA of 2.0 or above.
2. Residency hours–minimum of 12 credits counting towards the minor through attendance at UVU.
Deaf Studies, Minor

Careers:

The Deaf Studies minor prepares students to become certified interpreters, ASL and Deaf studies teachers, and/or to pursue graduate work in deaf education and a variety of other disciplines, and to engage in any number of professional fields related to deafness.

Related Careers

• Interpreters and Translators

Environmental Studies, Minor

Requirements

Environmental Studies explores the complex links between human culture and the natural world. The program challenges students to critically examine both the ecological and social context of environmental issues and the numerous connections between natural and social systems, from local to global scales. It is undeniable that humans have a profound impact on the environment. To have the greatest positive influence, we must seek knowledge of the structure and function of natural systems, as well as an understanding of how culture affects the way we perceive nature.

Total Program Credits: 18

Matriculation Requirements:

1. Completion of 30 hours of credit
2. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 3 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENST 3000</td>
<td>Introduction to Environmental Studies</td>
</tr>
</tbody>
</table>

Elective Requirements: 15 Credits

Electives (15 credit hours). Complete 5 of the following courses of 4 different prefixes from at least 2 different Schools:

College of Humanities and Social Sciences

| ANTH 3150 | Culture Ecology and Health (3.0) |
| HLTH 3150 | Culture Ecology and Health (3.0) |
| COMM 3130 | The Culture of Nature and Technology (3.0) |
| ENST 3520 | Environmental Sociology (3.0) |
| SOC 3520 | Environmental Sociology (3.0) |
| ENVT 3630 | Introduction to Geographic Information Systems (4.0) |
| GEOG 3600 | Introduction to Geographic Information Systems (4.0) |
| GEOG 3010 | Economic Geography (3.0) |
| GEOG 3800 | Environmental History of the United States (3.0) |
| HIST 3800 | Environmental History of the United States (3.0) |
| HI 3260 | History of Utah (3.0) |
| HI 4330 | Machines in the Making of History (3.0) |
| PHIL 3530 | Environmental Ethics (3.0) |
| POLS 1800 | Our Global Community (3.0) |
| SOC 3450 | Environmental Sociology (3.0) |

Any other advisor approved courses

College of Science and Health

| ANTH 3150 | Culture Ecology and Health (3.0) |

Environmental Studies, Minor

Careers:

A minor in Environmental Studies is useful for students seeking academic or professional paths in public policy on the environment. Environmental professionals currently work for government agencies at local, state, and federal levels, and also in many careers in both the public and private sectors.

Related Careers

• Environmental Engineering Technicians

Gender Studies, Minor

Requirements

The Gender Studies minor allows students to study the extent to which gender and gender relations are socially influenced. Students will examine the ways in which conceptions of masculinity and femininity directly impact social and political institutions and practices, cultural expressions (such as art, communication, media, literature, music and film), law, education, business, scientific inquiry, interpersonal relations, sexuality and family. The minor broadens students’ understanding of their chosen major and career path while facilitating the recognition of gender dynamics in their own lives.

Total Program Credits: 18

Matriculation Requirements:

1. Completion of 30 hours of credit.
2. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 6 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2700</td>
<td>Introduction to Gender Studies</td>
</tr>
<tr>
<td>ENGL 473R</td>
<td>Topics in Gender Studies</td>
</tr>
</tbody>
</table>

Elective Requirements: 12 Credits

Complete an additional 12 hours of electives. If a course that is not represented on the following list has sufficient gender related content, the student may seek approval from the Gender Studies Coordinator to have the course count toward the minor. 6 credits must be upper-division.
Interdisciplinary Studies Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECFS 3320</td>
<td>Gender Perspectives in Education (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3710</td>
<td>Literature by Women (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 320G</td>
<td>Women in American History to 1870 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 321G</td>
<td>Women in American History since 1870 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HLTH 2800</td>
<td>Human Sexuality (3.0)</td>
<td></td>
</tr>
<tr>
<td>HLTH 3240</td>
<td>Womens Health Issues (3.0)</td>
<td></td>
</tr>
<tr>
<td>LEGL 3320</td>
<td>Family Law (3.0)</td>
<td></td>
</tr>
<tr>
<td>PES 1405</td>
<td>Women's Safety Awareness and Self-Defense (1.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3150</td>
<td>Philosophical Issues in Feminism (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3160</td>
<td>Gender Values Knowledge and Reality (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3450</td>
<td>Philosophy of Childhood (3.0)</td>
<td></td>
</tr>
<tr>
<td>PSY 2800</td>
<td>Human Sexuality (3.0)</td>
<td></td>
</tr>
<tr>
<td>PSY 3100</td>
<td>Psychology of Gender (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 2370</td>
<td>Gender Roles (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 217G</td>
<td>Race Class and Gender in US Cinema (3.0)</td>
<td></td>
</tr>
<tr>
<td>IDST 4900</td>
<td>Interdisciplinary Studies Capstone (3.0)</td>
<td></td>
</tr>
<tr>
<td>IDST 281R</td>
<td>Interdisciplinary Studies Internship (1.0)</td>
<td></td>
</tr>
<tr>
<td>IDST 481R</td>
<td>Interdisciplinary Studies Internship (1.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Overall grade point average of 2.0 (C) or above.
2. Residency hours—minimum of 12 credit hours through course attendance at UVU.

Gender Studies, Minor

Careers
Gender Studies, Minor Careers

Related Careers
• Postsecondary Teachers, All Other

Peace and Justice Studies, Minor

Requirements
The Peace & Justice Studies minor approaches phenomena empirically and theoretically associated with violence/nonviolence and injustice/justice, including peace, justice, mediation and conflict resolution, philosophy and religion. These topics are investigated at multiple levels from the realm of the personal and familial, to international structures, conventions, institutions, and history.

Total Program Credits: 21

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU

Discipline Core Requirements: 6 Credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PJST 4900</td>
<td>Peace and Justice Studies Capstone</td>
<td>3</td>
</tr>
<tr>
<td>PJST 3000</td>
<td>Introduction to Peace and Justice Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 15 Credits

Complete 15 credits, at least one course from each of the following areas (additional courses may be substituted upon advisor approval):

Peace, War, and Conflict:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PJST 3020</td>
<td>The Ethics of War and Peace</td>
<td>3</td>
</tr>
<tr>
<td>PJST 4300</td>
<td>Violence and Social Conflict in Latin America</td>
<td></td>
</tr>
<tr>
<td>PJST 385G</td>
<td>The Struggle for Self-determination--American Indians 1891 to present</td>
<td></td>
</tr>
<tr>
<td>PJST 4130</td>
<td>Anti-Semitism and the Holocaust</td>
<td></td>
</tr>
<tr>
<td>PJST 3520</td>
<td>The United States and Vietnam--1945 to Present</td>
<td></td>
</tr>
<tr>
<td>PJST 3540</td>
<td>History of South Africa</td>
<td></td>
</tr>
<tr>
<td>PJST 4140</td>
<td>Genocide in the Twentieth Century</td>
<td></td>
</tr>
<tr>
<td>POLS 3100</td>
<td>Survey of International Terrorism</td>
<td></td>
</tr>
</tbody>
</table>

Justice:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 4160</td>
<td>Constitutional Criminal Rights</td>
<td>3</td>
</tr>
<tr>
<td>CJ 4200</td>
<td>Ethical Issues in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 4700</td>
<td>Comparative Criminal Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3800</td>
<td>Environmental History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>AJST 4600</td>
<td>Contemporary American Indian Political and Social Issues</td>
<td></td>
</tr>
<tr>
<td>POLS 3500</td>
<td>International Relations of the Middle East</td>
<td>3</td>
</tr>
<tr>
<td>POLS 3600</td>
<td>International Relations of East Asia</td>
<td>3</td>
</tr>
<tr>
<td>POLS 359G</td>
<td>American Indian Law and Tribal Government</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3450</td>
<td>Environmental Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 320G</td>
<td>Race and Minority Relations</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3460</td>
<td>Political Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3700</td>
<td>Social Inequality</td>
<td>3</td>
</tr>
</tbody>
</table>

Mediation/Conflict Resolution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEGL 3410</td>
<td>Mediation and Negotiation</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 4100</td>
<td>Advanced Mediation</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3150</td>
<td>Survey of Dispute Resolution</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 4200</td>
<td>Domestic Mediation</td>
<td>3</td>
</tr>
</tbody>
</table>

Philosophy and Religion:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 3530</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3540</td>
<td>Christian Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3700</td>
<td>Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3150</td>
<td>Philosophical Issues in Feminism</td>
<td>3</td>
</tr>
</tbody>
</table>

Peace and Justice Studies, Minor

Careers

Because matters of peace and justice are of perennial - and perhaps growing - concern, students who earn a Peace & Justice Studies minor will place themselves in a multi-faceted market of career opportunities including law, social work, counseling, mediation and conflict resolution, development, diplomacy, nonprofit management, education, various forms of government employment, and more.

Related Careers
• NO MATCH
Religious Studies, Minor

Requirements

The Religious Studies minor fosters and facilitates an interdisciplinary approach to the academic study of religion. Due to its influential role at the local, national, and international levels, religion requires careful study utilizing academic methods employed in the examination of other cultural institutions. This includes the study of the history, theology, literature, folklore, etc., of various religions in an effort to study religion as a cultural phenomenon. The program is intended to serve our students and community by deepening our understanding of religious beliefs and practices in a spirit of open inquiry. Its aim is neither to endorse nor to undermine the claims of religion, but to create an environment in which various issues can be engaged from a variety of perspectives and methodologies.

Total Program Credits: 21

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
<th>12 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Completion of 30 hours of credit</td>
<td></td>
</tr>
<tr>
<td>2. Admitted to a bachelor degree program at UVU.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>12 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1610 Introduction to Western Religions (3.0)</td>
<td></td>
</tr>
<tr>
<td>or PHIL 1620 Introduction to Eastern Religions (3.0)</td>
<td></td>
</tr>
<tr>
<td>or ANTH 3450 Shamanism and Indigenous Religion</td>
<td>3</td>
</tr>
<tr>
<td>RLST 3650 Approaches to Religious Studies</td>
<td>3</td>
</tr>
<tr>
<td>RLST 366R Issues in Religious Studies</td>
<td>3</td>
</tr>
<tr>
<td>RLST 3600 Philosophy of Religion</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective Requirements:</th>
<th>9 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 9 credits of electives from the list below or as approved by advisor.</td>
<td></td>
</tr>
</tbody>
</table>

| ANTH 3400 Myth Magic and Religion (3.0) | |
| ANTH 3450 Shamanism and Indigenous Religion (3.0) | |
| ANTH 3460 Anthropology of Mormonism (3.0) | |
| COMM 3780 Mormon Cultural Studies (3.0) | |
| ENGL 374G Literature of the Sacred (3.0) | |
| ENGL 3780 Mormon Literature (3.0) | |
| HIST 4100 Jewish History (3.0) | |
| PHIL 3540 Christian Ethics (3.0) | |
| PHIL 3610 Introduction to Christian Theology (3.0) | |
| SOC 3400 Sociology of Religion (3.0) | |

Russian Studies, Minor

Careers

A Religious Studies minor will complement a variety of majors and contribute to a well-rounded educational experience by exposing students to multiple disciplines.

Related Careers

- Philosophy and Religion Teachers, Postsecondary

Russian Studies, Minor

Requirements

The Russian Studies minor will provide students with a foundational understanding of the language as well as an introduction to the social, political, historical, and economic factors that make Russia one of the leading international powers today. Students will attain a general knowledge and understanding of Russian culture, society and history from pre-historic times to the present, have a basic familiarity with Russia’s position in and influence on world politics and economics, and demonstrate the ability to transcend the boundaries between national languages and disciplines by the use of comparative and collaborative approaches to scholarship.

Total Program Credits: 22

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Completion of 30 hours of credit.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>4 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUS 2010 Intermediate Russian I</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 18 hours of advisor-approved electives from the following, 9 credits must be upper-division:</td>
<td></td>
</tr>
</tbody>
</table>

| HIST 3650 Imperial Russia—Autocracy to Opposition 1686-1917 (3.0) | |
| HIST 366G The History of Modern Russia—1864 to Present (3.0) | |
| HIST 4170 The USSR Under Stalin (3.0) | |
| POLS 356G Comparative Politics of Central Asia (3.0) | |
| RUS 202G Intermediate Russian II (4.0) | |
| RUS 266G Introduction to Russian Culture (3.0) | |
| RUS 3050 Advanced Russian (3.0) | |
| RUS 3200 Business Russian (3.0) | |
| RUS 3300 Russian Conversation and Composition I (3.0) | |
| RUS 3520 Russian Culture and Civilization (3.0) | |
| RUS 366G Twentieth Century Russian Culture (3.0) | |
| RUS 367G History of Russian Film (3.0) | |
| RUS 4110 Translation and Interpretation (3.0) | |
| RUS 416G Post Soviet Russian Media and Film (3.0) | |
| other upper-division advisor-approved courses | |

Related Careers

- Area, Ethnic, and Cultural Studies Teachers, Postsecondary
Internship Services

<table>
<thead>
<tr>
<th>Name:</th>
<th>Internship Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>LC 409</td>
</tr>
<tr>
<td>Telephone:</td>
<td>801-863-6589 or 801-863-6364</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:internships@uvu.edu">internships@uvu.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td>uvu.edu/internships</td>
</tr>
<tr>
<td>Director:</td>
<td>Marsha Haynes</td>
</tr>
</tbody>
</table>

Utah Valley University encourages students to extend learning beyond the classroom by participating in internships or other professional engagement activities. Students who participate in professionally engaged activities:

- network with peers, mentors, faculty, employers, community leaders, and experienced associates
- acquire the knowledge, skills, and attitudes to be successful and versatile professionals and citizens
- are confident, competent, creative, and proactive in becoming intellectually engaged in their personal pursuits, careers, and local and global communities

To qualify for internship academic credit the experience must:

- relate to the student's major or professional field of study
- integrate academic and experiential learning
- be at a professional level of responsibility appropriate for academic credit
- include written agreements between the student, employer, academic department and University that outline the responsibilities of the parties

All departments in the University have integrated internship experience in their curriculum either as a required component or as an elective. Generally these courses are designated as 281R (lower division) or 481R (upper division). Some departments require an associated pre-requisite and/or co-requisite.

Approval for enrollment must be obtained from the academic department Internship Coordinator. A list of current coordinators can be obtained from the internship website or by contacting the department directly. Students declared as a University Studies major, or those students who would like to explore career options should consider enrolling in an exploratory internship through the Department of College Success Studies (CLSS).

All students enrolled in internship credit must complete a required online orientation. The Online Internship Orientation can be found at uvu.edu/internships/student/orientation.html.

Academic credit for internships is granted according to learning objectives with the academic department and the number of hours a student works during the semester. Generally, internships require approximately 75 hours of work for every credit hour received.

Grading for internship is CR (credit granted) or NC (credit not granted). The maximum number of internship credits that may be applied toward a certificate or graduation requirement is determined by the individual department.

Internship Services and The Career Development Center

The University is committed to assisting students in making intelligent and informed career choices. Internship Services and/or The Career Development Center Office can assist students in investigating internship opportunities by providing employer leads and information, helping students construct resumes, and assisting with interview preparation.

International Internships

- Telephone: 801-863-8709
- Web: international/ims/international_internship.html

The International Center offers students a variety of international internship opportunities in a number of countries. Students who go on an international internship will gain practical experience relevant to their major while experiencing a foreign culture.
The mission of the Department of Languages and Cultures at Utah Valley University is to prepare students to interact effectively in a global community by acquiring competent communicative skills, and developing sensitivity toward cultural differences. By engaging with linguistic and cultural artifacts such as history, literature, and contemporary social structures and systems, language and culture students learn to think critically and behave ethically as they mature in linguistic and cultural literacy. This department prepares students to enter the global work force, further graduate studies and enjoy lifelong enrichment.

Languages and Cultures

- Administrative Contact: Amelia Riding, Admin II
  - Telephone: 801-863-8047
  - Email: Amelia.Riding@uvu.edu
  - Mail Stop: 167

- Administrative Contact: Sally Walker, Admin III
  - Telephone: 801-863-7232
  - Email: Sally.Walker@uvu.edu
  - Mail Stop: 167

- Advising:
  - Telephone: 801-863-8047
  - Email:

- Program Coordinator Contact: Dr. Bryan Eldredge, ASL & Deaf Studies
  - Telephone: 801-863-8529
  - Email: bryane@uvu.edu

- Program Coordinator Contact: Dr. Alex Yuan, Chinese
  - Telephone: 801-863-5199
  - Email: gyuan@uvu.edu

- Program Coordinator Contact: Dr. Gloria Gilmore, French
  - Telephone: 801-863-7262
  - Email: Gloria.Gilmore@uvu.edu

- Program Coordinator Contact: Dr. Jeff Packer, German, Japanese & Russian
  - Telephone: 801-863-8626
  - Email: packerje@uvu.edu

- Program Coordinator Contact: Dr. Debora Ferreira, Portuguese
  - Telephone: 801-863-6919
  - Email: Debora.Ferreira@uvu.edu

- Program Coordinator Contact: Dr. Jorge Nisguritzer, Spanish
  - Telephone: 801-863-8231
  - Email: nisgurjo@uvu.edu

- Program Coordinator Contact: Travis Young, ACIPP Lab & Language Lab
  - Telephone: 801-863-6427
  - Email: Travis.Young@uvu.edu

Course Descriptions

American Sign Language ................................................................. 530
Chinese .......................................................................................... 558
French ............................................................................................. 640
German ......................................................................................... 647
Japanese ....................................................................................... 670
Languages ..................................................................................... 671
Portuguese .................................................................................... 715
Russian ......................................................................................... 722
Spanish ......................................................................................... 726

Degrees & Programs

Chinese Language, Minor

Requirements

Total Program Credits: 18

Matriculation Requirements:

1. Complete lower division Chinese courses [1010, 1020, 2010, and 202G] or attain a similar level of language mastery through other means. Native speakers begin at the upper division level.

Discipline Core Requirements: 9 Credits

- CHIN 3050 Advanced Chinese 3
- CHIN 3510 Chinese Culture and Civilization 3
- CHIN 4050 Chinese Language and Culture 3

Elective Requirements: 9 Credits
In addition to the 9 core requirements, students must complete 9 hours of advisor-approved upper division electives from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHST 362G</td>
<td>Traditional Chinese History</td>
<td>3.0</td>
</tr>
<tr>
<td>CHST 363G</td>
<td>Modern Chinese History</td>
<td>3.0</td>
</tr>
<tr>
<td>CHST 373G</td>
<td>Classical Chinese Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>CHST 375G</td>
<td>Modern Chinese Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>CHST 416G</td>
<td>Chinese Culture and Film</td>
<td>3.0</td>
</tr>
<tr>
<td>CHIN 4100</td>
<td>Translation and Interpretation</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 3600</td>
<td>International Relations of East Asia</td>
<td>3.0</td>
</tr>
</tbody>
</table>

other advisor-approved course

Chinese Language, Minor
Careers
Chinese Language, Minor Careers

Related Careers

- Instructional Coordinators

French, Minor
Requirements

Earn this minor in conjunction with any UVU Bachelor Degree Major offered. The minor consists of 18 credits of Upper Division coursework (3050 required). For more information contact the Language Department advisor.

Total Program Credits: 18

Matriculation Requirements:

1. Complete ENGL 2010 and 30 hours of college-level courses other than French with a minimum GPA of 2.0
2. Complete lower division French courses (1010, 1020, 2010, and 202G) or receive the equivalent through experiential credit (does not apply to native speakers).
3. Students with significant residency abroad should register for French 3050 as a first course toward the minor.
4. Be admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 3 Credits

FREN 3050 Advanced French

Elective Requirements: 15 Credits

Complete 15 credits from among the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 3030</td>
<td>French Composition and Conversation</td>
<td>3.0</td>
</tr>
<tr>
<td>FREN 3040</td>
<td>Introduction to Literary Genres in French</td>
<td>3.0</td>
</tr>
<tr>
<td>FREN 3200</td>
<td>Business French</td>
<td>3.0</td>
</tr>
<tr>
<td>FREN 351G</td>
<td>Culture and Civilization to 1700</td>
<td>3.0</td>
</tr>
<tr>
<td>FREN 352G</td>
<td>Culture and Civilization from 1700</td>
<td>3.0</td>
</tr>
<tr>
<td>FREN 3610</td>
<td>French Literature to 1700</td>
<td>3.0</td>
</tr>
<tr>
<td>FREN 3620</td>
<td>French Literature from 1700</td>
<td>3.0</td>
</tr>
<tr>
<td>FREN 4200</td>
<td>Advanced Business French</td>
<td>3.0</td>
</tr>
<tr>
<td>FREN 4500</td>
<td>Advanced Writing in French</td>
<td>3.0</td>
</tr>
<tr>
<td>FREN 490R</td>
<td>Special Topics in French</td>
<td>3.0</td>
</tr>
<tr>
<td>LANG 3000</td>
<td>Language and Culture</td>
<td>3.0</td>
</tr>
<tr>
<td>or</td>
<td>LANG 481R Language Internship (1.0)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>LANG 4200 Methods of Teaching a Foreign Language</td>
<td>3.0</td>
</tr>
<tr>
<td>or</td>
<td>LANG 490R Special Topics in Languages</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of Baccalaureate Degree.
2. A minimum grade of "C" must be earned in all minor courses.

German, Minor
Careers
German, Minor Careers

Related Careers

- Foreign Language and Literature Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education
- Interpreters and Translators

German, Minor
Requirements

Pair German with an additional language of your choosing. This minor can be earned in conjunction with any Bachelor degree major that UVU offers.

Total Program Credits: 18

Matriculation Requirements:

1. Complete ENGL 2010 and 30 hours of college-level courses other than German with a minimum GPA of 2.0
2. Complete lower division German courses (1010, 1020, 2010, and 202G) or attain a similar level of language mastery through other means. Native speakers begin at the upper division level.
3. Be admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 3 Credits

GER 3050 Advanced German

Elective Requirements: 15 Credits

Complete 15 credits from among the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 3030</td>
<td>German Composition and Conversation</td>
<td>3.0</td>
</tr>
<tr>
<td>GER 3200</td>
<td>Business German</td>
<td>3.0</td>
</tr>
<tr>
<td>GER 351G</td>
<td>German Culture and Civilization</td>
<td>3.0</td>
</tr>
<tr>
<td>GER 360R</td>
<td>Topics in German Studies</td>
<td>3.0</td>
</tr>
<tr>
<td>GER 4200</td>
<td>Advanced Business German</td>
<td>3.0</td>
</tr>
<tr>
<td>LANG 3000</td>
<td>Language and Culture</td>
<td>3.0</td>
</tr>
<tr>
<td>or</td>
<td>LANG 3010 Introduction to Linguistics</td>
<td>3.0</td>
</tr>
<tr>
<td>or</td>
<td>LANG 4200 Methods of Teaching a Foreign Language</td>
<td>3.0</td>
</tr>
<tr>
<td>or</td>
<td>LANG 481R Language Internship</td>
<td>1.0</td>
</tr>
<tr>
<td>or</td>
<td>LANG 490R Special Topics in Languages</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of Baccalaureate Degree.
2. A minimum grade of "C" must be earned in all minor courses.
Languages, Minor

Requirements

The Minor in Languages requires 9 credits upper division course work in one language and 11 credits of intermediate level course work in another language (prerequisites will vary from student to student).

Total Program Credits: 20

Matriculation Requirements:

1. Complete ENGL 2010 and 30 hours of college-level courses other than Language courses with a minimum GPA of 2.0
2. Complete lower-division courses (1010, 1020, 2010, and 202G/2020) in one foreign language or receive the equivalent through experiential credit (does not apply to native speakers).
3. Be admitted to a bachelor degree program at UVU.
4. Courses taken for credit in the Languages minor may not apply to any other program. See Advisor.

Discipline Core Requirements: 20 Credits

Complete the following two requirements:

LANGUAGE 1

A 3050 course in any foreign language 3

6 credits numbered higher than 3050 in the same language 6

or

LANG 3000 Language and Culture (3.0)

LANGUAGE 2

11 credits in courses numbered 2000 or higher in a SECOND foreign language. 11

Graduation Requirements:

1. Completion of Baccalaureate Degree.
2. Any grade below a “C” (2.0) in a Languages Minor course will not be accepted.

Languages, Minor

Careers

Languages, Minor Careers

Related Careers

• Foreign Language and Literature Teachers, Postsecondary
• Secondary School Teachers, Except Special and Career/Technical Education
• Interpreters and Translators

Latin American Studies, Minor

Requirements

The minor in Latin American Studies (LAS) provides a comprehensive and interdisciplinary understanding of Latin American and Latino culture, history, and language. This is particularly important for preparing UVU students to be fully competitive in the global marketplace since two of the top ten trading partners of the United States, Mexico and Brazil, are located in Latin America. Students learn to comprehend the unique geographical and historical complexities of Latin America and its place in the world, as well as the multifaceted cultural backgrounds of their fellow students whose families are from that vast area. A minor in LAS complements a diverse number of majors giving our students the opportunity to prepare for a future working with either Utah’s growing Latino population or beyond the state pursuing opportunities abroad.

Total Program Credits: 18

Matriculation Requirements:

1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 9 Credits

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 2500 Geography of Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>HIST 204G Colonial Latin America</td>
<td>3</td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 205G Modern Latin America (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete 3 credits from the following:

<table>
<thead>
<tr>
<th>Elective Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORT 202G Intermediate Portuguese II (4.0)</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 202G Intermediate Spanish II (4.0)</td>
<td></td>
</tr>
</tbody>
</table>

Any PORT 3000 level or higher

Any SPAN 3000 level or higher

Elective Requirements: 9 Credits

Choose 9 credits from the following:

<table>
<thead>
<tr>
<th>Elective Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 3340 Peoples and Cultures of Mexico (3.0)</td>
<td></td>
</tr>
<tr>
<td>ANTH 3350 Andean Prehistory (3.0)</td>
<td></td>
</tr>
<tr>
<td>ANTH 3370 History and Ethnography of Andean Societies (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 319G Intercultural Communication Encounters (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 373R Literature of Cultures and Places (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 476G Multi-ethnic Literature in America (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 430G Violence and Social Conflict in Latin America (3.0)</td>
<td></td>
</tr>
<tr>
<td>MGMT 330G Survey of International Business (3.0)</td>
<td></td>
</tr>
<tr>
<td>MGMT 332G Cross-Cultural Communications for International Business (3.0)</td>
<td></td>
</tr>
<tr>
<td>MGMT 458R Advanced Topics in International Business (1.0)</td>
<td></td>
</tr>
<tr>
<td>MGMT 4870 International Management (3.0)</td>
<td></td>
</tr>
<tr>
<td>MKTG 259R Current Topics in Marketing (1.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 420R Issues and Topics in Political Science (3.0)</td>
<td></td>
</tr>
<tr>
<td>PORT 3200 Business Portuguese (3.0)</td>
<td></td>
</tr>
</tbody>
</table>
### Latin American Studies, Minor

**Careers**

There are many domestic and international professional opportunities available with a minor in LAS, including diplomatic service, employment with non-governmental organizations, graduate study in a variety of fields, political or legislative consulting or lobbying, public and private education (K-12), law, medicine, translation and interpretation, international business, journalism, engineering, agriculture, law enforcement and the judicial system, human resources, information systems, etc.

**Related Careers**

- Area, Ethnic, and Cultural Studies Teachers, Postsecondary

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### Portuguese, Minor

**Requirements**

**Total Program Credits: 18**

**Matriculation Requirements:**

1. A minimum grade of "C" must be earned in all minor courses. *

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORT 3050</td>
<td>Advanced Portuguese</td>
<td>3</td>
</tr>
<tr>
<td>PORT 3610</td>
<td>Brazil through Literature and Film--1500-1900</td>
<td>3</td>
</tr>
<tr>
<td>PORT 3620</td>
<td>Modern Brazil through Literature/Music/Film--1900-1945</td>
<td>3</td>
</tr>
<tr>
<td>PORT 3630</td>
<td>Post-Modern Brazil through Literature/Music/Film--1945-today</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Requirements:**

A total of 6 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORT 3200</td>
<td>Business Portuguese (3.0)</td>
</tr>
<tr>
<td>PORT 3430</td>
<td>Masterpieces of Brazilian Film (3.0)</td>
</tr>
<tr>
<td>PORT 352G</td>
<td>Brazilian Culture and Civilization (3.0)</td>
</tr>
<tr>
<td>PORT 3610</td>
<td>Brazil through Literature and Film--1500-1900</td>
</tr>
<tr>
<td>PORT 3620</td>
<td>Modern Brazil through Literature/Music/Film--1900-1945</td>
</tr>
<tr>
<td>PORT 3630</td>
<td>Post-Modern Brazil through Literature/Music/Film--1945-today</td>
</tr>
<tr>
<td>LANG 281R</td>
<td>Language Internship (1.0)</td>
</tr>
<tr>
<td>LANG 3000</td>
<td>Language and Culture (3.0)</td>
</tr>
<tr>
<td>LANG 3010</td>
<td>Introduction to Linguistics (3.0)</td>
</tr>
<tr>
<td>LANG 481R</td>
<td>Language Internship (1.0)</td>
</tr>
<tr>
<td>LANG 490R</td>
<td>Special Topics in Portuguese Studies (3.0)</td>
</tr>
<tr>
<td>LANG 4200</td>
<td>Methods of Teaching a Foreign Language (3.0)</td>
</tr>
</tbody>
</table>

or other advisor-approved course.

---

**Graduation Requirements:**

1. A minimum grade of "C" must be earned in all minor courses. *

**Footnote**

* Completion of Baccalaureate Degree.
Portuguese, Minor

Careers

Related Careers
- Foreign Language and Literature Teachers, Postsecondary
- Interpreters and Translators

Spanish, Minor

Requirements

This minor can be earned in conjunction with any Bachelor degree major that UVU offers. The minor consists of 18 credit hours of upper division coursework. There are some specific courses required and a number of electives so be sure to contact the advisor for more information.

Total Program Credits: 18

Matriculation Requirements:
1. Complete ENGL 2010 and 30 hours of college-level courses other than Spanish with a minimum GPA of 2.0
2. Complete lower division Spanish courses (1010, 1020, 2010, and 202G) or receive the equivalent through experiential credit (does not apply to native speakers).
3. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 18 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 3040</td>
<td>Spanish Conversation and Composition II (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3050</td>
<td>Advanced Spanish</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 351G</td>
<td>Culture and Civilization--Spain (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 352G</td>
<td>Culture and Civilization--Spanish America</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4050</td>
<td>Special Topics in Grammar Usage and Style</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete 9 credits from any upper-division SPAN or LANG courses not previously taken. 9

Graduation Requirements:
1. Completion of Baccalaureate Degree.
2. Any grade below a "C" (2.0) in a Spanish Minor course will not be accepted.

Spanish, Minor

Careers

Spanish, Minor Careers

Related Careers
- Interpreters and Translators
- Foreign Language and Literature Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education
- Interpreters and Translators

ASL and Deaf Studies Education, B.A.

Requirements

This four-year degree prepares students to teach ASL & Deaf Studies in secondary education (grades 7-12) settings. Students take major courses from the Languages department and licensure courses through the School of Education. This degree requires separate application to the School of Education. Bachelor of Arts in ASL and Deaf Studies Education

Total Program Credits: 120

Matriculation Requirements:
1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read/Math 1000, with Math and Reading scores of 450; or

If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass LiveScan Criminal Background Check.

General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Biology or Physical Science</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 68 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL 3050</td>
<td>Advanced American Sign Language *</td>
<td>3</td>
</tr>
<tr>
<td>ASL 3310</td>
<td>Interpreting I</td>
<td>3</td>
</tr>
<tr>
<td>or ASL 4410</td>
<td>ASL Linguistics (3.0)</td>
<td></td>
</tr>
<tr>
<td>ASL 3510</td>
<td>Deaf Culture to 1817</td>
<td>3</td>
</tr>
<tr>
<td>or ASL 3520</td>
<td>Deaf Culture 1817 to 1970 (3.0)</td>
<td></td>
</tr>
<tr>
<td>ASL 3530</td>
<td>Deaf Culture from 1970</td>
<td>3</td>
</tr>
<tr>
<td>LANG 4200</td>
<td>Methods of Teaching a Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>ASL 3610</td>
<td>ASL Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ASL 4610</td>
<td>ASL Literature II</td>
<td>3</td>
</tr>
</tbody>
</table>

Any other 3000+ class with an ASL or LANG prefix. 15

Education Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSC 3000</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 3400</td>
<td>Exceptional Students</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 3050</td>
<td>Foundations of American Education</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 3250</td>
<td>Instructional Media</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4200</td>
<td>Classroom Management I</td>
<td>2</td>
</tr>
</tbody>
</table>
Languages and Cultures

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSC 4250</td>
<td>Classroom Management II</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4440</td>
<td>Content Area Literacies</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 445G</td>
<td>Multicultural Instruction ESL</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4550</td>
<td>Secondary Curriculum Instruction and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDSC 4850</td>
<td>Student Teaching--Secondary</td>
<td>10</td>
</tr>
</tbody>
</table>

Elective Requirements: 16 Credits
Complete 16 credits of any courses 1000-level or higher.

Graduation Requirements:
1. Complete a minimum of 120 credit hours with a minimum of 40 upper-division credits.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Completion of General Education, ASL & Deaf Studies core, and elective requirements.
4. Meet residency and maximum years in program requirements and any other requirements stated in the College Catalog or established by the department.
5. Successful completion of at least one Global/Intercultural course.

NOTES:
Students should frequently review their program with faculty or department advisor.

ASL and Deaf Studies Education, B.A.

Careers:
This four-year degree prepares students to teach ASL & Deaf Studies in secondary education (grades 7-12) settings.

Related Careers
- Special Education Teachers, Preschool
- Special Education Teachers, Kindergarten and Elementary School
- Special Education Teachers, Middle School
- Special Education Teachers, Secondary School
- Special Education Teachers, All Other
- Interpreters and Translators

Deaf Studies - General Deaf Studies Emphasis, B.A.

Requirements
This four-year degree is a liberal arts degree that provides in-depth study into all facets of the Deaf-World. Students choose among two emphases. There is no special application process, but students should declare their major by contacting the academic advisor for the Languages Department.

This emphasis provides an opportunity for students to gain advanced ASL skills and thorough knowledge of the Deaf-World. Graduates with this emphasis will be prepared to work in various fields related to deafness. They will also work in fields that are not specifically tied to the Deaf-World but which require the skills and knowledge cultivated through the acquisition of any liberal arts degree. This emphasis is also terrific preparation for graduate school in any number of disciplines.

Total Program Credits: 120

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
<td>3</td>
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</tbody>
</table>

Choose one of the following: 3

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<th>Course Code</th>
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<tbody>
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<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
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</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
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</tr>
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<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life (2.0)</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>Humanities Distribution. Highly recommend: COMM 1020 Public Speaking or COMM 1050 Speech Comm or PHIL 1000 Intro to Philosophy or HUM 1010 Intro to Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fine Arts Distribution. Highly recommend: Danc 1010 Dance as an Art Form</td>
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<td></td>
</tr>
<tr>
<td>Social/Cultural Anthropology Social Science. Highly recommend ANTH 101G Soc/Cult Anth or MGMT 1010 Intro to Business or CJ 1010 Intro to Criminal Justice</td>
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<td></td>
</tr>
<tr>
<td>Biology. Highly recommend: ZOOL 1090 Intro to Human Anatomy and Physiology or ZOOL 2320 Human Anatomy</td>
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<td></td>
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<tr>
<td>Physical Science. Highly recommend: CHEM 1010 Intro to Chemistry or PHYS 1010 Elem Physics</td>
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Discipline Core Requirements: 34 Credits

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ASL 2040</td>
<td>ASL Numbers *</td>
<td>1</td>
</tr>
</tbody>
</table>

Footnote
* Requires ASL skills equivalent to those expected at the completion of ASL 202G. See advisor for more information.
Graduation Requirements:

1. 120 credit hours (minimum of 40 upper division)
2. Minimum cumulative G.P.A. of 2.0, with no grade lower than a "C" for all core and ASL elective requirements.
3. Completion of General Education requirements
4. Completion of Deaf Studies major core and elective requirements
5. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
6. Successful completion of at least one Global/Intercultural course.

Elective Requirements: 15 Credits

Any course numbered 1000 or higher.

Emphasis Requirements: 15 Credits

Complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANG 3000</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ASL 3710</td>
<td>Deaf View/Image Art-De'VIA</td>
<td>3</td>
</tr>
<tr>
<td>ASL 4450</td>
<td>Deaf-World Discourse</td>
<td>3</td>
</tr>
<tr>
<td>ASL 4560</td>
<td>Deafness and the Law</td>
<td>3</td>
</tr>
<tr>
<td>ASL 4800</td>
<td>Deaf Culture Studies</td>
<td>3</td>
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</tbody>
</table>

Emphasis Elective Requirements: 21 Credits

DEAF STUDIES ELECTIVES: 21

Complete 21 credits from among the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANG 481R</td>
<td>Language Internship (This is a variable credit course. No more than 5 credits can be applied as elective requirements. Additional credits can be applied as general electives.) (1.0)</td>
<td></td>
</tr>
</tbody>
</table>

Any 3000- or 4000-level ASL & Deaf Studies courses that are not part of the core and are not emphasis requirements.

Notes:

- Some courses are not part of the core and are not emphasis requirements.
- Students should frequently review their program with faculty or department advisor.

Footnote:

* Requires ASL skills equivalent to those expected at the completion of ASL 1020. See advisor for more information.

** Requires ASL skills equivalent to those expected at the completion of ASL 202G. See advisor for more information.

Deaf Studies - General Deaf Studies Emphasis, B.A. Careers

Many of your clients will be Deaf or Hard-of-Hearing. It will be to your immense advantage to be able to communicate with them directly. As a NURSE, one will be able to communicate with your Deaf patients while doing routine tasks. ELEMENTARY SCHOOL TEACHERS will possibly have Deaf children mainstreamed in their classroom. MENTAL HEALTH WORKERS, SOCIAL WORKERS, and COUNSELORS who know and understand Deaf people are in high demand. In fact, Deaf people have sought out service providers who use ASL and helped augment the number of clients utilizing a particular service provider. ADVOCATES such as LAWYERS or LOBBYISTS who work with legislators will be able to use their knowledge and skill in ASL when parts of legislation affect Deaf people. Even if you don't plan to focus on serving Deaf people, you can probably expand your client base by offering expertise in ASL. SALES ASSISTANTS in stores and shops will often encounter Deaf customers seeking to make purchases. In fact, a background in ASL will be useful in absolutely any field or employment.

Related Careers

- Interpreters and Translators

Deaf Studies - Interpreting Emphasis, B.A. Requirements

This four-year degree is a liberal arts degree that provides in-depth study into all facets of the Deaf-World. Students choose among two emphases. There is no special application process, but students should declare their major by contacting the academic advisor for the Languages Department.

Emphasis #2: Interpreting:

This emphasis provides an opportunity for students and focuses on helping them to gain interpreting skills and certification. There is currently an intense shortage of interpreters for the Deaf across the United States. UVU offers two distinct programs to prepare students to enter the interpreting profession: The Novice-Level Interpreter Preparation Program (NLIPP) and the Advanced Certification Interpreter Preparation Program (ACIPP). These programs can accommodate students of any skill level and courses fit right into the Deaf Studies degree requirements.

Total Program Credits: 120

General Education Requirements: 35 Credits

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or

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Languages and Cultures

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<td>Fitness for Life (2.0)</td>
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Distribution Courses:

- Humanities Distribution. Highly recommend: COMM 1020 Public Speaking or COMM 1050 Speech Comm or PHIL 1000 Intro to Philosophy or HUM 1010 Intro to Humanities (3)
- Fine Arts Distribution. Highly recommend: Danc 1010 Dance as an Art Form (3)
- Social/Cultural Anthropology Social Science. Highly recommend ANTH 101G Soc/Cult Anth or MGMT 1010 Intro to Business or CJ 1010 Intro to Criminal Justice (3)
- Biology. Highly recommend: ZOOL 1090 Intro to Human Anatomy and Physiology or ZOOL 2320 Human Anatomy (3)
- Physical Science. Highly recommend: CHEM 1010 Intro to Chemistry or Phys 1010 Elem Physics (3)
- Biology or Physical Science (3)

Discipline Core Requirements: 34 Credits

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<td>ASL 2040</td>
<td>ASL Numbers *</td>
<td>1</td>
</tr>
<tr>
<td>ASL 3050</td>
<td>Advanced American Sign Language **</td>
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</tr>
<tr>
<td>ASL 3310</td>
<td>Interpreting I</td>
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</tr>
<tr>
<td>ASL 3510</td>
<td>Deaf Culture to 1817</td>
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<tr>
<td>or ASL 3520</td>
<td>Deaf Culture 1817 to 1970 (3.0)</td>
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<tr>
<td>ASL 3530</td>
<td>Deaf Culture from 1970</td>
<td>3</td>
</tr>
<tr>
<td>ASL 3610</td>
<td>ASL Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ASL 4610</td>
<td>ASL Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ASL 4410</td>
<td>ASL Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>or ASL 3320</td>
<td>Physiology of Interpreting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or ASL 3330</td>
<td>Cross-Cultural Communication and Interpreting (3.0)</td>
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<tr>
<td>or ASL 3390</td>
<td>Professional Issues in Interpreting (3.0)</td>
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</tr>
<tr>
<td>or ASL 4330</td>
<td>Visual Linguistic Analysis for Interpreters (3.0)</td>
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<tr>
<td>or ASL 4360</td>
<td>Legal Interpreting (3.0)</td>
<td></td>
</tr>
<tr>
<td>or ASL 439R</td>
<td>Special Topics in Interpreting (3.0)</td>
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</tr>
</tbody>
</table>

Complete 6 credit hours from the following: 6

- ASL 3370 Sign to Voice Interpreting (3.0)
- ASL 3380 Transliteration (3.0)

Emphasis Elective Requirements: 9 Credits

Complete 9 credit hours from among the following: 9

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>DGM 1110</td>
<td>Digital Media Essentials I (4.0)</td>
<td></td>
</tr>
<tr>
<td>EDSP 3400</td>
<td>Exceptional Students (2.0)</td>
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</tr>
<tr>
<td>LEGL 290R</td>
<td>Law Society (1.0)</td>
<td></td>
</tr>
<tr>
<td>LEGL 3000</td>
<td>Business Law (3.0)</td>
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</tr>
<tr>
<td>MKTG 2200</td>
<td>Written Business Communication (3.0)</td>
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</tr>
<tr>
<td>PHIL 3510</td>
<td>Business and Professional Ethics (3.0)</td>
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</tr>
<tr>
<td>PHIL 3700</td>
<td>Social and Political Philosophy (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 4120</td>
<td>Philosophy of Education (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 451R</td>
<td>Ethical Theory Seminar (3.0)</td>
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</tr>
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<td>PHIL 4480</td>
<td>Philosophy of Language (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 3430</td>
<td>Sociology of Education (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. 120 credit hours (minimum of 40 upper division)
2. Minimum cumulative G.P.A. of 2.0, with no grade lower than a "C" for all core and ASL elective requirements.
3. Completion of General Education requirements
4. Completion of Deaf Studies major core and elective requirements
5. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
6. Successful completion of at least one Global/Intercultural course.

Note: Students should frequently review their program with faculty or department advisor.

Footnote

* Requires ASL skills equivalent to those expected at the completion of ASL 1020. See advisor for more information.

** Requires ASL skills equivalent to those expected at the completion of ASL 202G. See advisor for more information.
Deaf Studies - Interpreting Emphasis, B.A.

**Careers**

Interpreters work in a wide variety of settings: educational, medical, community, theater, legal, and job-related.

**Related Careers**

- Interpreters and Translators

**Spanish Education, B.A.**

**Requirements**

This four-year degree prepares students to teach Spanish in Secondary education (grades 7-12) settings. Students take major courses from the Languages and Cultures department and licensure courses through the School of Education. This degree requires separate application to the School of Education.

**Total Program Credits: 122**

**Matriculation Requirements:**

1. ACT exam required (re-take required if 7 years or older) composite score of 20 or higher with no individual score lower than 19.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass LiveScan Criminal Background Check.
6. Other requirements as determined by the Department of Languages

**General Education Requirements:**

- **ENGL 1010** Introduction to Writing 3
- **ENGL 2010** Intermediate Writing--Humanities/Social Sciences 3
- **MATH 1050** College Algebra 4

Choose one of the following:

- **HIST 1700** American Civilization (3.0)
- **HIST 2700** US History to 1877 (3.0)
- **HIST 2710** US History since 1877 (3.0)
- **POLS 1000** American Heritage (3.0)
- **POLS 1100** American National Government (3.0)
- **HIST 1740** US Economic History (3.0)

Complete the following:

- **PHIL 2050** Ethics and Values 3
- **HLTH 1100** Personal Health and Wellness 2
- **PES 1097** Fitness for Life (2.0)

**Distribution Courses:**

- Humanities Distribution [non-language courses only] 3
- Social/Behavioral Science 3
- Fine Arts Distribution 3
- Biology 3
- Physical Science 3
- Biology or Physical Science 3

**Discipline Core Requirements:**

- **SPAN 3040** Spanish Conversation and Composition II 3
- or **SPAN 3050** Advanced Spanish (3.0)
- or **SPAN 351G** Culture and Civilization--Spain 3
- or **SPAN 352G** Culture and Civilization--Spanish America (3.0)
- **ACTFL Oral Proficiency Interview (OPI) Score of Advanced Low or higher.**
- **SPAN 4050** Special Topics in Grammar and Style 3
- **SPAN 4500** Advanced Spanish Writing 3

Any two upper division Spanish Literature courses 6

- **SPAN 4100** Teaching Spanish Grammar 3
- **SPAN 4900** Capstone Seminar 3
- **LANG 4200** Methods of Teaching a Foreign Language 3

**Education Courses:**

- **EDSP 3400** Exceptional Students 2
- **EDSC 3000** Educational Psychology 3
- **EDSC 3050** Foundations of American Education 2
- **EDSC 3250** Instructional Media 2
- **EDSC 4200** Classroom Management I 2
- **EDSC 4250** Classroom Management II 2
- **EDSC 4440** Content Area Literacies 3
- **EDSC 445G** Multicultural Instruction ESL 3
- **EDSC 4550** Secondary Curriculum Instruction and Assessment 3
- **EDSC 4850** Student Teaching--Secondary 10

**Elective Requirements:**

Complete 15 credits of any upper-division SPAN or LANG courses not previously taken. 15

Complete 12 credits of any courses 1000-level or higher. 12

**Graduation Requirements:**

1. Complete a minimum of 122 credit hours with a minimum of 40 upper-division credits.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B in Licensure and Methods courses.
3. Completion of General Education, Spanish core, and elective requirements.
4. Meet residency and maximum years in program requirements and any other requirements stated in the College Catalog or established by the department.
5. Successful completion of at least one Global/Intercultural course.

**NOTES:** Students should frequently review their program with faculty or department advisor.

Post-BA/BS students must take 30 hours of education courses, fulfill the Math 1050 requirement, and meet all stipulated deadlines.

**Spanish Education, B.A.**

**Careers**

Language expertise has specific application to a career in language teaching or translation. It becomes an attending, and often essential, skill in any business or government activity which involves domestic or international non-English speaking communities. Additionally, businesses and governments are increasingly global enterprises, while U.S. citizens are becoming more multilingual, which means the demand for language expertise is increasing throughout all facets of social interaction, particularly, but not limited to industry, commerce, and education.
Languages and Cultures

Related Careers

• Education Teachers, Postsecondary
• Foreign Language and Literature Teachers, Postsecondary
• Middle School Teachers, Except Special and Career/Technical Education
• Secondary School Teachers, Except Special and Career/Technical Education

Spanish, B.A.

Requirements

This four-year degree is a liberal arts degree that provides in-depth study into all facets of the Spanish language and culture. There is no special application process, but students should declare their major by contacting the academic advisor for the Languages department.

Total Program Credits: 120

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<th>General Education Requirements:</th>
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Choose one of the following: 3

| MATH 1030 Quantitative Reasoning (3.0) |
| MATH 1040 Introduction to Statistics (3.0) |
| MATH 1050 College Algebra (4.0) |

Choose one of the following: 3

| HIST 1700 American Civilization (3.0) |
| HIST 2700 US History to 1877 (3.0) |
| and HIST 2710 US History since 1877 (3.0) |
| POLS 1000 American Heritage (3.0) |
| POLS 1100 American National Government (3.0) |
| HIST 1740 US Economic History (3.0) |

Complete the following: 3

| PHIL 2050 Ethics and Values |
| HLTH 1100 Personal Health and Wellness | 2 |
| or PES 1097 Fitness for Life (2.0) |

Distribution Courses

- Humanities Distribution [non-language courses only] 3
- Social/Behavioral Science 3
- Fine Arts Distribution 3
- Biology 3
- Physical Science 3
- Biology or Physical Science 3

Discipline Core Requirements: 21 Credits

| SPAN 3040 Spanish Conversation and Composition II | 3 |
| or SPAN 3050 Advanced Spanish (3.0) |
| SPAN 351G Culture and Civilization--Spain | 3 |
| or SPAN 352G Culture and Civilization--Spanish America (3.0) |
| SPAN 3060 Oral Proficiency (1.0) |
| or Oral Proficiency Interview (OPI) |

Elective Requirements: 64 Credits

| SPAN 4500 Advanced Spanish Writing | 3 |
| Any two upper division Spanish literature courses | 6 |
| SPAN 4050 Special Topics in Grammar Usage and Style | 3 |
| SPAN 4900 Capstone Seminar | 3 |

Complete 21 credits of any upper-division SPAN or LANG courses not previously taken. 21

Any course 1000 level or higher * 43

Graduation Requirements:

1. 120 credit hours (minimum of 40 upper division)
2. Minimum cumulative G.P.A. of 2.0, with no grade lower than a "C" for all core and SPAN elective requirements.
3. Completion of General Education requirements.
4. Completion of Spanish major core and elective requirements.
5. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
6. Successful completion of at least one Global/Intercultural course.
7. Students should frequently review their program with faculty or department advisor.

Footnote

* For eligible students, the lower division courses 1010, 1020, 1030, and 202G/2020, worth 16 hours will apply here.

Spanish, B.A.

Careers

Careers:

Language expertise has specific application to a career in language teaching or translation. It becomes an attending, and often essential, skill in any business or government activity which involves domestic or international non-English speaking communities. Additionally, businesses and governments are increasingly global enterprises, while U.S. citizenry is becoming more multilingual, which means the demand for language expertise is increasing throughout all facets of social interaction, particularly, but not limited to industry, commerce, and education.

Related Careers

• Interpreters and Translators
• Foreign Language and Literature Teachers, Postsecondary
• Secondary School Teachers, Except Special and Career/Technical Education
• Interpreters and Translators
Legal Studies

Mission Statement
The mission of the Legal Studies programs at UVU is to provide timely and career-ready education and skills training to aspiring legal professionals.

Every Legal Studies graduate will:

- Be competent in legal research, document production, and law practice processes.
- Be productive in the use of advanced technology to be more accurate, efficient and cost effective in the law office, and be able to use industry-specific software and internet applications.
- Have actual work experience and a portfolio of work product as part of their academic training.
- Demonstrate high ethical standards and conduct.

Legal Studies
Advisor: Scott Childs
- Telephone: 801-863-6719
- Email: CHILDSSC@UVU.EDU

Legal Studies Advisory Committee:
Lesleigh Ashby, Public Sector Paralegal, Utah State Courts, Fourth District Juvenile Court
Steve Averett, Judge Pro Tempore and J. Reuben Clark Law School Librarian
Aaron Bartholomew, Judge Pro Tempore, Practicing Attorney, Associate Professor, Chair, Legal Studies Department
Diane Samudio, Manager of Paralegals
Danielle Allison, Alumni Representative, Private Sector Paralegal, Freelance Paralegal
Kim Bruce, Private Sector Paralegal, Workman Nydegger
Lauree Roberts, Alumni Representative, Public Sector Paralegal, Office of the Murray City Attorney
Carolyn Hoheims-Howard, Master Mediator
Kiersty Loughmiller, Law Clerk/Bailiff - Utah State Courts
Daniel Price, Graduate Representative
Tom Seller, Practicing Lawyer, Robinson, Seller & Assoc., Commissioner of Utah Bar Association
Neil Skousen, Practicing Lawyer, Private Practice
Judge James Taylor, District Court Judge, Fourth District Court
Mayor Hunt Willoughby, Mayor, Alpine City - Community Representative

Programs
Legal Studies students may receive a Certificate of Proficiency in Legal Studies, Associate in Applied Science in Legal Studies, an Associate in Science in Legal Studies, or a Bachelor of Science in Legal Studies. These programs are all approved by the American Bar Association.

Career Opportunities
For those trained as legal professionals, many rewarding opportunities exist for employment as law clerks, paralegals, legal assistants, litigation specialists, court clerks and other professions. In addition to traditional law firms, business and government at all levels hire legal professionals to meet their ever expanding law-related needs.

companies, mortgage companies, law libraries, courts, legal service/legal aid offices, legal clinics, and law departments of special interest groups or associations readily employ non-attorney legal professionals, typically working under the supervision of attorneys.

Paralegals may not provide legal services directly to the public, except as permitted by law.

The Minor is not approved by the American Bar Association and is not intended to prepare students to work as Paralegals.

Admission Requirements
In addition to applying for admission to Utah Valley University, Legal Studies students must meet the following admission requirements:

- Submit Compass Test scores to a Woodbury School of Business advisor for evaluation. Applicants who score below the required level must register for additional courses in English, reading and/or math.
- Meet with a Woodbury School of Business advisor.

Cooperative Education
Cooperative education or an internship is required for Legal Studies students. A total of eight credits may be applied toward graduation.

FACULTY
BARTHOLOMEW, Aaron Assistant Professor
CONAWAY, Teresa Assistant Professor
HOWARD, Carolyn Associate Professor
JASPERSON, Jill O. Associate Professor
SMITH, Scott Lecturer
YAMEN, Sharon Assistant Professor

Course Descriptions
Legal Studies.................................................................................................................. 671

Degrees & Programs
Legal Studies, A.A.S.

Requirements
Programs in Legal Studies at UVU offer an applied and technical perspective in U.S. law and legal practice. The department provides dynamic and timely offerings in many topics in law and clinical law practice, focusing on career-ready skills. The AAS, AS, and BS degrees, as well as the Certificate of Proficiency, in Legal Studies are approved by the American Bar Association.

Total Program Credits: 63

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>21 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete the following:</td>
<td>-----------</td>
</tr>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing–Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MAT 1010 Intermediate Algebra</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>Complete one approved Social/Behavioral Science GE course.</td>
<td>3</td>
</tr>
<tr>
<td>Complete one approved Biology/Physical Science GE course.</td>
<td>3</td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>2</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life (2.0)</td>
<td></td>
</tr>
</tbody>
</table>
Legal Studies

Graduation Requirements:
1. Completion of a minimum of 63 or more semester credits
2. Overall grade point average of 2.0 (C) or above. Must have a grade of C+ or higher in all Core requirements.
3. Residency hours: Minimum of 20 credit hours though course attendance at UVU. At least 12 of these credits must be in LEGL courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Legal Studies, A.S.

Careers

For those trained as legal professionals, many rewarding opportunities exist for employment as law clerks, paralegals, legal assistants, litigation specialists, court clerks, and other professions. In addition to traditional law firms, business and government at all levels hire legal professionals to meet their ever expanding law-related needs. All levels of local, state, and federal government, banks, insurance companies, title companies, mortgage companies, law libraries, courts, legal service/legal aid offices, legal clinics, and law departments of special interest groups or associations readily employ non-attorney legal professionals, typically working under the supervision of attorneys. Paralegals may not provide legal services directly to the public, except as permitted by law.

Related Careers
• Paralegals and Legal Assistants
• Title Examiners, Abstractors, and Searchers
• Legal Support Workers, All Other

Legal Studies, A.S.

Requirements

Programs in Legal Studies at UVU offer an applied and technical perspective in U.S. law and legal practice. The department provides dynamic and timely offerings in many topics in law and clinical law practice, focusing on career-ready skills. The AAS, AS, and BS degrees, as well as the Certificate of Proficiency, in Legal Studies are approved by the American Bar Association.

Total Program Credits: 60
Legal Studies, Certificate of Proficiency

Requirements

Programs in Legal Studies at UVU offer an applied and technical perspective in U.S. law and legal practice. The department provides dynamic and timely offerings in many topics in law and clinical law practice, focusing on career-ready skills. The AAS, AS, and BS degrees, as well as the Certificate of Proficiency, in Legal Studies are approved by the American Bar Association. A student seeking a Certificate in Legal Studies must have a previous degree of AS/AA or BS/BA.

Total Program Credits: 24

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>24 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEGL 1000</td>
<td>Introduction to American Law</td>
</tr>
<tr>
<td>LEGL 1120</td>
<td>Court and Litigation Procedures</td>
</tr>
<tr>
<td>LEGL 1220</td>
<td>Legal Research and Writing I</td>
</tr>
<tr>
<td>LEGL 2110</td>
<td>Civil Procedure</td>
</tr>
<tr>
<td>LEGL 2300</td>
<td>Legal Research and Writing II</td>
</tr>
<tr>
<td>LEGL 2330</td>
<td>Technology in Law Practice</td>
</tr>
<tr>
<td>LEGL 3000</td>
<td>Business Law</td>
</tr>
<tr>
<td>LEGL 3190</td>
<td>Legal Environment</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 24 credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- Minimum of 6 credits required through course attendance at UVU.

Legal Studies, Certificate of Proficiency

Careers

For those trained as legal professionals, many rewarding opportunities exist for employment as law clerks, paralegals, legal assistants, litigation specialists, court clerks, and other professions. In addition to traditional law firms, business and government at all levels hire legal professionals to meet their ever expanding law-related needs. All levels of local, state, and federal government, banks, insurance companies, title companies, mortgage companies, law libraries, courts, legal service/legal aid offices, legal clinics, and law departments of special interest groups or associations readily employ non-attorney legal professionals, typically working under the supervision of attorneys. Paralegals may not provide legal services directly to the public, except as permitted by law.

Related Careers

• Paralegals and Legal Assistants
• Title Examiners, Abstractors, and Searchers
• Legal Support Workers, All Other

Legal Studies, Minor

Requirements

Programs in Legal Studies at UVU offer an applied and technical perspective in U.S. law and legal practice. The department provides dynamic and timely offerings in many topics in law and clinical law practice, focusing on career-ready skills. The Minor in Legal Studies is not approved by the American Bar Association and is not intended to prepare students to work as paralegals.

Total Program Credits: 24

Matriculation Requirements:

1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEGL 1000</td>
<td>Introduction to American Law</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 1120</td>
<td>Court and Litigation Procedures</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 1220</td>
<td>Legal Research and Writing I</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 2110</td>
<td>Civil Procedure</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 2300</td>
<td>Legal Research and Writing II</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3190</td>
<td>Legal Environment</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements:

Choose 9 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEGL 2300</td>
<td>Legal Research and Writing II</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3020</td>
<td>Intellectual Property and Cyber Law</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3150</td>
<td>Survey of Dispute Resolution</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3320</td>
<td>Family Law</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3530</td>
<td>Employment and Labor Law</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3650</td>
<td>Tort Law</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 4130</td>
<td>Bankruptcy and Collections</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 4150</td>
<td>Wills Trusts and Probate</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 4160</td>
<td>Contract Law</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 418G</td>
<td>International Law</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 4190</td>
<td>Constitutional Law</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 430G</td>
<td>International Business Law</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Overall grade point average of 2.5 in all School of Business (LEGL) courses and no grade lower than a C+ in LEGL specialty core and elective courses.

Legal Studies, Minor

Careers

For those trained as legal professionals, many rewarding opportunities exist for employment as law clerks, paralegals, legal assistants, litigation specialists, court clerks, and other professions. In addition to traditional law firms, business and government at all levels hire legal professionals to meet their ever expanding law-related needs. All levels of local, state and federal government, banks, insurance companies, title companies, mortgage companies, law libraries, courts, legal service/legal aid offices, legal clinics, and law departments of special interest groups or associations readily employ non-attorney legal professionals, typically working under the supervision of attorneys. Paralegals may not provide legal services directly to the public, except as permitted by law. The minor is not approved by the American Bar Association and is not intended to prepare students to work as paralegals.

Related Careers

• Paralegals and Legal Assistants
Legal Studies

- Title Examiners, Abstractors, and Searchers
- Legal Support Workers, All Other

Legal Studies, B.S.

Requirements

Programs in Legal Studies at UVU offer an applied and technical perspective in U.S. law and legal practice. The department provides dynamic and timely offerings in many topics in law and clinical law practice, focusing on career-ready skills. The AAS, AS, and BS degrees, as well as the Certificate of Proficiency, in Legal Studies are approved by the American Bar Association.

Total Program Credits: 120

Matriculation Requirements:

1. Completion of LEGL 1000, LEGL 1110, LEGL 1220, and LEGL 2300 with C+ or higher.

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following: 3

- MATH 1030 | Quantitative Reasoning (3.0)  
- MATH 1040 | Introduction to Statistics (3.0)  
- MATH 1050 | College Algebra (4.0)  

Complete one of the following: 3

- HIST 2700 | US History to 1877 (3.0)  
- HIST 2710 | US History since 1877 (3.0)  
- HIST 1700 | American Civilization (3.0)  
- HIST 1740 | US Economic History (3.0)  
- POLS 1000 | American Heritage (3.0)  
- POLS 1100 | American National Government (3.0)  

Complete the following: 3

- PHIL 2050 | Ethics and Values  
- HLTH 1100 | Personal Health and Wellness  
- or PES 1097 | Fitness for Life (2.0)  

Distribution Courses: 3

- Biology  
- Physical Science  
- Additional Biology or Physical Science  
- Humanities Distribution  
- Fine Arts Distribution  
- Social/Behavioral Science  

Discipline Core Requirements: 69 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEGL 1000</td>
<td>Introduction to American Law</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 1120</td>
<td>Court and Litigation Procedures</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 1220</td>
<td>Legal Research and Writing I</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 1330</td>
<td>Criminal Law and Procedure</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits with 40 semester credits from 3000 and 4000 level courses.
2. Overall grade point average of 2.0 (C) or above. Must have a grade of (C+) or higher in all core and legal elective requirements.
3. Residency hours—minimum of 30 credit hours of School of Business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Legal Studies, B.S.

Careers

For those trained as legal professionals, many rewarding opportunities exist for employment as law clerks, paralegals, legal assistants, litigation specialists, court clerks, and other professions. In addition to traditional law firms, business and government at all levels hire legal professionals to meet their ever-expanding law-related needs. All levels of local, state, and federal government, banks, insurance companies, title companies, mortgage companies, law libraries, courts, legal service/legal aid offices, legal clinics, and law departments of special interest groups or associations readily employ non-attorney legal professionals, typically working under the supervision of attorneys. Paralegals may not provide legal services directly to the public, except as permitted by law.

Related Careers

- Paralegals and Legal Assistants
- Title Examiners, Abstractors, and Searchers
- Legal Support Workers, All Other
### Management

<table>
<thead>
<tr>
<th>Name:</th>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>WB 242</td>
</tr>
<tr>
<td>Telephone:</td>
<td>801-863-7296</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:management@uvu.edu">management@uvu.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td>uvu.edu/woodbury/management/</td>
</tr>
<tr>
<td>Chair:</td>
<td>David N McArthur</td>
</tr>
</tbody>
</table>

### Mission Statement

The Department of Management supports and drives forward the Vision of the Woodbury School of Business (WSB), which is (that) “…(a) community-engaged school of business that integrates teaching and scholarship, we aspire to be as a school of choice and a leader in student development, entrepreneurship, global involvement, and innovative teaching.”

We do this, as do all departments in the WSB, through:

- Quality instruction and student involvement
- Faculty and student scholarship
- Community outreach and engaged learning
- Integration and application of knowledge
- Social, ethical, cultural, and global literacy

### Management

#### Career Opportunities

Many opportunities exist for those trained in business management in private industry, government, and through entrepreneurship. Possible jobs in domestic and international businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers.

#### Job Outlook

Job demand is high, particularly in larger metropolitan areas; and the employment outlook is excellent.

#### Programs

Students majoring in business management may receive a Certificate of Completion, an Associate in Applied Science in Business Management, an Associate in Science with a pre-major in Business, or a Bachelor of Science in Entrepreneurship, Bachelor of Science in Hospitality Management, or a Bachelor of Science in Business Management with a specialization in one of the following three areas: General Business, Hospitality Management or International Business. An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah. (See the Woodbury School of Business section of the catalog for details on the AS degree.)

#### Hospitality Management

**Program Coordinator:** Doug Miller

- **Office:** WB 203c
- **Telephone:** 801-863-8106
- **Email:** millerd@uvu.edu

#### Career Opportunities

The Hospitality Management program prepares graduates for employment in one of the fastest growing segments of the nation’s economy. The additions of several new convention centers in the state have increased the need for hotel and restaurant facilities. Students are marketable in a wide range of hospitality and tourism areas such as: hotel, resort, and motel management; event planning; restaurant and institutional food service; and a number of other areas such as cruise ship management, amusement park management, convention and visitor facilities, and gaming facilities.

The Hospitality Management program in the Woodbury School of Business offers a Bachelor of Science degree in Hospitality Management, as well as a Bachelor of Science degree in Business Management, with an Emphasis in Hospitality Management. Associate in Science and Associate in Applied Science degrees are also offered.

The Bachelor of Science in Hospitality Management degree offers the possibility for a student to choose one of four specializations: General Operations; Revenue Management; Food and Beverage Management (designed mainly for Culinary Arts AAS graduates); and Foreign Language Track (which provides 12-15 hours of language credit).

*See Culinary Arts Institute section of this catalog for program.*

#### Woodbury School of Business

<table>
<thead>
<tr>
<th><strong>Advisement Center:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Office:</strong> WB 257</td>
</tr>
<tr>
<td><strong>Telephone:</strong> 801-863-8032</td>
</tr>
</tbody>
</table>

**Dean:** Norman S. Wright

- **Office:** WB 128b
- **Telephone:** 801-863-8260
- **Email:** Norman.Wright@uvu.edu

**DEPARTMENT CHAIR**

| **MCARTHUR, David N. Associate Professor** |

#### FACULTY

| **CHAPMAN, Jared Assistant Professor** |
| **COZZENS, Charles F. Associate Professor** |
| **GOUGH, Vance Assistant Professor** |
| **HUFFMAN, Tammy Associate Professor** |
| **HUO, Yang Hwae Associate Professor** |
| **KUPKA, Bernd Associate Professor** |
| **MADSEN, Susan Rae Professor** |
| **MCARTHUR, David N. Associate Professor** |
| **MILLER, Douglas Professor** |
| **MILLIGAN, Patrick Professional In Residence** |
| **MORTENSEN, James Professional In Residence** |
| **PETERSON, Jeffrey Associate Professor** |
| **RHOADS, Kevin A. Assistant Professor** |
| **ROBINSON, Peter B. Morris Professor of Entrepreneurship** |
| **SEELEY, Eugene L. Associate Professor** |
| **WARNMBIER, H. Peter Lecturer** |
| **WESTOVER, Jonathan Associate Professor** |

#### Course Descriptions

- Hospitality Management..........................................................657
- Business Management..................................................................680
Management

Degrees & Programs

Business Management, A.A.S.

Requirements

Students majoring in business management may receive a Certificate of Completion, an Associate in Applied Science in Business Management, an Associate in Science with a pre-major in Business, a Bachelor of Science in Hospitality Management, or a Bachelor of Science in Business Management with a specialization in one of the following four areas: Entrepreneurship, General Business, Hospitality Management, or International Business. An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah.

Total Program Credits: 65

General Education Requirements: 17 Credits

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>MATHEMATICS</th>
<th>HUMANITIES/FINE ARTS/FOREIGN LANGUAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>MAT 1010</td>
<td>Any approved Humanities, Fine Arts, or</td>
</tr>
<tr>
<td>Introduction</td>
<td>Intermediate Algebra</td>
<td>Language</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>

SOCIAL AND BEHAVIORAL SCIENCE

<table>
<thead>
<tr>
<th>ECON 1010</th>
<th>Economics as a Social Science</th>
<th>3</th>
</tr>
</thead>
</table>

BIOLOGY OR PHYSICAL SCIENCE

<table>
<thead>
<tr>
<th>Any approved Biology of Physical Science course</th>
<th>Any approved Physical Education, Health, Safety or Environment course</th>
<th>3</th>
<th>1</th>
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Discipline Core Requirements: 30 Credits

<table>
<thead>
<tr>
<th>ACC 2010</th>
<th>Financial Accounting (3.0)</th>
<th>3</th>
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<tbody>
<tr>
<td>ACC 2020</td>
<td>Managerial Accounting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 1010</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>IM 2010</td>
<td>Business Computer Proficiency</td>
<td>3</td>
</tr>
<tr>
<td>or Business Computer Proficiency Exam*</td>
<td>FIN 1060</td>
<td>Personal Finance</td>
</tr>
<tr>
<td>MKTG 2200</td>
<td>Written Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 2390</td>
<td>Professional Business Presentations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3600</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3000</td>
<td>Business Law</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 18 Credits

| Any ACC, ECON, FIN, HM, LEGL, MGMT, MKTG course 1000 level or higher ** | General Education Electives (select from Distribution List) | 9 | 9 |

Graduation Requirements:

1. Completion of a minimum of 65 semester credits.
2. Overall grade point average of 2.0 (C) or above with 2.5 required for all Woodbury School of Business courses. No grade below C- in required courses.
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU with at least 12 credits of Woodbury School of Business courses.
4. Completion of GE and specified departmental requirements.

* Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

** No more than three credits of MGMT 281R Cooperative Work Experience will be allowed as business elective; see advisor for further recommendations.

Business Management, A.A.S.

Careers

Many opportunities exist for those trained in business management in private industry, government, and through entrepreneurship. Possible jobs in domestic and international businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas and the employment outlook is excellent.

Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Hospitality Management, A.A.S.

Requirements

The Hospitality Management program in the Woodbury School of Business offers a Bachelor of Science degree in Hospitality Management (as well as supporting a Bachelor of Science degree in Business Management, with an Emphasis in Hospitality Management – listed elsewhere). Associate in Science and Associate in Applied Science degrees are also offered.

Total Program Credits: 63

General Education Requirements: 20 Credits

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>MATHEMATICS</th>
<th>HUMANITIES/FINE ARTS/FOREIGN LANGUAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>MAT 1010</td>
<td>Any approved Humanities, Fine Arts, or</td>
</tr>
<tr>
<td>Introduction</td>
<td>Intermediate Algebra</td>
<td>Language</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>

SOCIAL BEHAVIORAL SCIENCE

| Any approved Behavioral Science, Social, or Political Science Distribution Course | 3 |

BIOLOGY OR PHYSICAL SCIENCE

| Any approved Humanities, Fine Arts, or Foreign Language Distribution Course | 3 |

Footnote
### Hospitality Management, A.S.

#### Requirements

The Hospitality Management program in the Woodbury School of Business offers a Bachelor of Science degree in Hospitality Management (as well as supporting a Bachelor of Science degree in Business Management, with an Emphasis in Hospitality Management – listed elsewhere). Associate in Science in Hospitality Management is also offered.

#### Total Program Credits: 60

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
</tr>
</tbody>
</table>

#### Discipline Core Requirements: 34 Credits

- **Discipline Core Requirements: 34 Credits**
- **Business Computer Proficiency Exam * or IM 2010 Business Computer Proficiency (3.0)**
- HM 1010 Introduction to Hospitality Industry (3 credits)
- HM 1130 Hotel Operations I (3 credits)
- HM 1180 Food and Beverage Management (3 credits)
- HM 281R Cooperative Work Experience (4 credits)
- HM 3020 Hospitality Managerial Accounting (4 credits)
- HM 3390 Hotel Operations II (3 credits)
- HM 3640 Food and Beverage Controls (3 credits)
- ACC 2010 Financial Accounting (3 credits)
- MKTG 2200 Written Business Communication (3 credits)
- MKTG 3890 Career Preparation (2 credits)
- ECON 1010 Economics as a Social Science (3 credits)

#### Elective Requirements: 9 Credits

- Six hours of elective credits from HM, ACC, ECON, DGM, FIN, INFO, LEGL, MGMT, or MKTG courses.

#### Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade lower than a "C-" in hospitality or other Woodbury School of Business Courses.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU; at least 16 credits must be in Woodbury School of Business courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

#### Footnote

* Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

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### Hospitality Management, A.A.S.

#### Careers

The Hospitality Management program prepares graduates for employment in one of the fastest growing segments of the nation’s economy. The additions of several new convention centers in the state have dramatically increased the need for hotel and restaurant facilities. Students are marketable in a wide range of hospitality and tourism areas such as: hotel, resort, and motel management; event planning; restaurant and institutional food service; and a number of other areas such as cruise ship management, amusement park management, convention and visitor facilities, and gaming facilities.

#### Related Careers

- Food Service Managers
- Lodging Managers

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### Hospitality Management, A.S.

#### Distribution Courses:

- ECON 1010 Economics as a Social Science (3 credits)
- or ECON 2020 Macroeconomics (3 credits)
- or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

#### Complete the following:

- HIST 2700 US History to 1877 (3.0)
- or HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- or HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- or POLS 1100 American National Government (3.0)

#### Complete the following:

- PHIL 2050 Ethics and Values (3 credits)
- or HLTH 1100 Personal Health and Wellness (2 credits)
- or PES 1097 Fitness for Life (2 credits)

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### Hospitality Management, A.A.S.

#### Disciplines:

- **Biology** (3 credits)
- **Physical Science** (3 credits)
- **Additional Biology or Physical Science** (3 credits)
- **Humanities Distribution (COMM 1020 recommended)** (3 credits)
- **Fine Arts Distribution** (3 credits)
- **ECON 1010 or ECON 2020** Economics as a Social Science or Macroeconomics (3 credits)

#### Complete the following:

- **ACC 2010 Financial Accounting** (3 credits)
- **HM 1010 Introduction to Hospitality Industry** (3 credits)
- **HM 1130 Hotel Operations I** (3 credits)
- **HM 1180 Food and Beverage Management** (3 credits)
- **Business Computer Proficiency Exam * or IM 2010 Business Computer Proficiency (3.0)**
- **MKTG 2200 Written Business Communication** (3 credits)
**Pre-Major in Business, A.S.**

**Requirements**

Students majoring in business management may receive a Certificate of Completion, an Associate in Applied Science in Business Management, an Associate in Science with a pre-major in Business, a Bachelor of Science in Hospitality Management, or a Bachelor of Science in Business Management with a specialization in one of the following four areas: Entrepreneurship, General Business, Hospitality Management, or International Business. An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah.

**Total Program Credits: 60**

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>36 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher</td>
<td>3</td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 1700 American Civilization (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

**Graduation Requirements:**

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 or above with no grade below a "C-" in hospitality or other Woodbury School of Business courses.
3. Residency hours: a minimum of 20 credit hours through course attendance at UVU; at least 16 credits must be in Woodbury School of Business.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

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**Hospitality Management, A.S.**

**Careers**

The Hospitality Management program prepares graduates for employment in one of the fastest growing segments of the nation’s economy. The additions of several new convention centers in the state have dramatically increased the need for hotel and restaurant facilities. Students are marketable in a wide range of hospitality and tourism areas such as: hotel, resort, and motel management; event planning; restaurant and institutional food service; and a number of other areas such as cruise ship management, amusement park management, convention and visitor facilities, and gaming facilities.

**Related Careers**

- Food Service Managers
- Lodging Managers

---

**Pre-Major in Business, A.S.**

**Careers**

Many opportunities exist for those trained in business management in private industry, government, and through entrepreneurship. Possible jobs in domestic and international businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas and the employment outlook is excellent.

**Related Careers**

- Chief Executives
- General and Operations Managers
- Sales Managers
Business Management, Certificate of Completion

Requirements

Students completing this program of study may receive a Certificate of Completion in Business Management.

Total Program Credits: 30

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>24 Credits</th>
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<tbody>
<tr>
<td>FIN 1060 Personal Finance</td>
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<tr>
<td>MGMT 1010 Introduction to Business</td>
<td>3</td>
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<td>MKTG 2200 Written Business Communication</td>
<td>3</td>
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<tr>
<td>MKTG 2390 Professional Business Presentations</td>
<td>3</td>
</tr>
<tr>
<td>ACC 1150 Fundamentals of Business Math</td>
<td>3</td>
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<tr>
<td>ACC 2010 Financial Accounting</td>
<td>3</td>
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<tr>
<td>IM 2010 Business Computer Proficiency *</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1010 Economics as a Social Science</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective Requirements:</th>
<th>6 Credits</th>
</tr>
</thead>
</table>

Choose six credits of business electives from the ACC, ECON, FIN, HUM, LEGL, MKTG, or MGMT prefixes. A maximum of 3 credits may be cooperative work experience.

Graduation Requirements:

1. Completion of a minimum of 30 semester credits.
2. Overall grade point average of 2.0 or above with 2.5 GPA or above in Business courses. No grade below "C-" in business courses.
3. Residency hours: Minimum of 10 credit hours through course attendance at UVU with at least 12 credits of Woodbury School of Business courses.

Elective Requirements: 3 Credits

Choose 3 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 4200 Entrepreneurship Technology-based Opportunity Identification (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4210 Entrepreneurship Personal Development (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3220 Entrepreneurship Law (3.0)**</td>
<td>3</td>
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</tbody>
</table>

Entrepreneurship, Certificate of Proficiency

Requirements

Students minoring in the business management area of entrepreneurship will be exposed to and practice the skills needed by entrepreneurs in starting and developing their own businesses or growing the business of another entrepreneur.

Total Program Credits: 16

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>13 Credits</th>
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</thead>
<tbody>
<tr>
<td>MGMT 3170 Entrepreneurship**</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3180 Small Business Development**</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3190 Entrepreneurship Financing Ventures</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4300 Entrepreneurship Business Planning*</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 483R Entrepreneurship Lecture Series</td>
<td>1</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective Requirements:</th>
<th>3 Credits</th>
</tr>
</thead>
</table>

Choose 3 credits from the following:

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<tr>
<td>MGMT 4210 Entrepreneurship Personal Development (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3220 Entrepreneurship Law (3.0)**</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 16 credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 6 credit hours through course attendance at UVU.

Entrepreneurship, Certificate of Proficiency

Careers

Many opportunities exist for those trained in business management or entrepreneurship. Possible jobs include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas, and the employment outlook is excellent.

Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers

Entrepreneurship, Certificate of Proficiency

Careers

Many opportunities exist for those trained in business management (entrepreneurship) in private industry and through entrepreneurship. Possible jobs in developing other entrepreneurs’ businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Possible jobs open as self-employed entrepreneurs are limited only by imagination and skills brought to the market.

Related Careers

- Chief Executives
- General and Operations Managers
- Managers, All Other
- Business Teachers, Postsecondary
Management

Business Management, Minor

Requirements

Students minoring in business management may have their Bachelor of Science (whether in Business Management or in another field) endorsed with a Minor in Business Management.

Total Program Credits: 22

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 19 Credits

Business Core Courses:
- ACC 3000 Financial Managerial and Cost Accounting Concepts 3
- INFO 3120 Management Information Systems 3
- LEGL 3000 Business Law 3
- MKTG 2200 Written Business Communication 3
- ECON 2020 Macroeconomics 3
- MGMT 3000 Organizational Behavior 3
- MGMT 495R Executive Lecture Series 1 (or MGMT 493R Entrepreneurship Lecture Series 1.0)

Elective Requirements: 3 Credits
Choose one of the following:
- FIN 3100 Principles of Finance (3.0) *
- MGMT 330G Survey of International Business (3.0)
- MGMT 3430 Human Resource Management (3.0)
- MKTG 3600 Principles of Marketing (3.0)

Graduation Requirements:
1. Overall grade point average of 2.5 in all Woodbury School of Business courses and no grade lower than a C- in business courses.
2. Completion of GE and specified departmental requirements.

Note: Students are responsible for completing all prerequisite courses. Not available to Business Management majors.

Footnote
* Courses with an asterisk (*) cannot be taken until student is matriculated into a bachelor degree program.

Business Management, Minor

Careers

Many opportunities exist for those trained in business management in private industry, government, and through entrepreneurship. Possible jobs in domestic businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas, and the employment outlook is excellent.

Related Careers
- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Entrepreneurship, Minor

Requirements

Students minoring in the business management area of entrepreneurship will be exposed to and practice the skills needed by entrepreneurs in starting and developing their own businesses or growing the business of another entrepreneur.

Total Program Credits: 18

Discipline Core Requirements: 15 Credits

Entrepreneurship
- MGMT 3170 Entrepreneurship 3
- MGMT 3180 Small Business Development 3
- MGMT 3190 Entrepreneurship Financing Ventures 3
- MGMT 4300 Entrepreneurship Business Planning 3

or
- ACC 2010 Financial Accounting (3.0)
and
- ACC 2020 Managerial Accounting (3.0)
or
- ACC 2030 Principles of Accounting (6.0)
or
- ACC 3000 Financial Managerial and Cost Accounting Concepts 3

Elective Requirements: 3 Credits
Choose 3 credits from the following:
- MGMT 3430 Human Resource Management (3.0)
- MKTG 3650 Professional Selling (3.0)
- MKTG 3670 Advertising and Promotion (3.0)
- LEGL 3000 Business Law (3.0)

Entrepreneurship, Minor

Careers

Many opportunities exist for those trained in business management (entrepreneurship) in private industry and through entrepreneurship. Possible jobs in developing other entrepreneurs’ businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Possible jobs open as self-employed entrepreneurs are limited only by imagination and skills brought to the market.

Related Careers
- Chief Executives
- General and Operations Managers
- Managers, All Other
- Business Teachers, Postsecondary

Business Management - General Business Emphasis, B.S.

Requirements

Students majoring in business management may receive a Certificate of Completion, an Associate in Applied Science in Business Management, an Associate in Science with a pre-major in Business, a Bachelor of Science in Hospitality Management, or a Bachelor of Science in Business Management with a specialization in one of the following four
areas: Entrepreneurship, General Business, Hospitality Management, or International Business. An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah.

Total Program Credits: 120

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>36 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing—Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing—Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher</td>
<td></td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0)</td>
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</tr>
<tr>
<td>HIST 1740 US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000 American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100 American National Government (3.0)</td>
<td></td>
</tr>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life</td>
<td>2</td>
</tr>
<tr>
<td>Distribution Courses:</td>
<td></td>
</tr>
<tr>
<td>ECON 2020 Macroeconomics ** (fulfills Social/Behavioral Science credit)</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
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<tr>
<td>Humanities Distribution</td>
<td>3</td>
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<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
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<tr>
<td>Discipline Core Requirements:</td>
<td>47 Credits</td>
</tr>
<tr>
<td>Business Foundation Courses (required for matriculation):</td>
<td></td>
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<tr>
<td>ACC 2010 Financial Accounting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>ACC 2020 Managerial Accounting (3.0)</td>
<td>3</td>
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<tr>
<td>Business Computer Proficiency Exam</td>
<td></td>
</tr>
<tr>
<td>or IM 2010 Business Computer Proficiency (3.0) **</td>
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<tr>
<td>MATH 1100 Introduction to Calculus</td>
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<tr>
<td>or MKTG 2240 Business Quantitative Analysis (3.0)</td>
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<tr>
<td>MKTG 2200 Written Business Communication * (Complete with B- grade or higher)</td>
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<tr>
<td>ECON 2010 Microeconomics</td>
<td>3</td>
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<td>MKTG 2340 Business Statistics I</td>
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<td>MKTG 2390 Professional Business Presentations</td>
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<tr>
<td>Business Core Courses:</td>
<td></td>
</tr>
<tr>
<td>FIN 3100 Principles of Finance *</td>
<td>3</td>
</tr>
<tr>
<td>ILEGL 3000 Business Law</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 10 Credits
- Select 10 credits of any non-Woodbury School of Business courses

Emphasis Requirements: 27 Credits
- MKTG 3020 Individual Action and Corporate Social Responsibility
- MKTG 330G Survey of International Business
- MKTG 3430 Human Resource Management
- MKTG 481R Internship

Complete 15 credits of pre-approved upper-division courses. See advisor for list of courses.

Graduation Requirements:
1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C*" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote
* Courses with an asterisk (*) cannot be taken until student is matriculated.
** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

Business Management - General Business Emphasis, B.S.

Careers:
Many opportunities exist for those trained in business management in private industry, government, and through entrepreneurship. US Dept of Labor reports estimate a 12% growth through 2022 in jobs requiring Bachelor’s degrees – such as those offered by the Management Department. Possible jobs in domestic and international businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas and the employment outlook is excellent. A current employer survey by the National Association of Colleges and Employers showed that 86% expected to hire graduates with BS degrees in business.

Related Careers
- Chief Executives
Management

- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Business Management - Hospitality Management Emphasis, B.S.

Requirements

Students majoring in business management may receive a Certificate of Completion, an Associate in Applied Science in Business Management, an Associate in Science with a pre-major in Business, a Bachelor of Science in Hospitality Management, or a Bachelor of Science in Business Management with a specialization in one of the following four areas: Entrepreneurship, General Business, Hospitality Management or International Business. An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah.

Total Program Credits: 120

General Education Requirements: 36 Credits

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Complete one of the following: 3

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<tbody>
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<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 2710</td>
<td>US History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
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</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
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</table>

Distribution Courses: 28 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2020</td>
<td>Macroeconomics ** (fulfills Social/Behavior Science credit)</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
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<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
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<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
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<td>Fine Arts Distribution</td>
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Discipline Core Requirements: 47 Credits

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>ACC 2010</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 2020</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Business Computer Proficiency Exam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or IM 2100</td>
<td>Business Computer Proficiency (3.0)**</td>
<td></td>
</tr>
<tr>
<td>MATH 1100</td>
<td>Introduction to Calculus</td>
<td>4</td>
</tr>
<tr>
<td>or MGMT 2240</td>
<td>Business Quantitative Analysis (3.0)**</td>
<td></td>
</tr>
<tr>
<td>MKTG 2200</td>
<td>Written Business Communication *(Complete with B-grade or higher)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2010</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 2340</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 2390</td>
<td>Professional Business Presentations</td>
<td>3</td>
</tr>
</tbody>
</table>

Business Core Courses: 40 Credits

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>FIN 3100</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3000</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3120</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3600</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3450</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3890</td>
<td>Career Preparation</td>
<td>2</td>
</tr>
<tr>
<td>MGMT 4860</td>
<td>Business Strategy Formulation and Implementation *(Complete with B-grade or higher)</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 493R</td>
<td>Entrepreneurship Lecture Series (1.0)</td>
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</tr>
<tr>
<td>or MGMT 495R</td>
<td>Executive Lecture Series</td>
<td>1</td>
</tr>
</tbody>
</table>

Elective Requirements: 10 Credits

Select 10 credits of any non-Woodbury School of Business courses

Emphasis Requirements: 28 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 330G</td>
<td>Survey of International Business</td>
<td>3</td>
</tr>
<tr>
<td>or MGMT 332G</td>
<td>Cross-Cultural Communications for International Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3200</td>
<td>Global Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HM 3020</td>
<td>Hospitality Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>HM 3390</td>
<td>Hotel Operations II</td>
<td>3</td>
</tr>
<tr>
<td>HM 3640</td>
<td>Food and Beverage Controls</td>
<td>3</td>
</tr>
<tr>
<td>HM 3710</td>
<td>Marketing of Hospitality Services</td>
<td>3</td>
</tr>
<tr>
<td>HM 4550</td>
<td>Hospitality Industry Management</td>
<td>3</td>
</tr>
<tr>
<td>HM 481R</td>
<td>Internship</td>
<td>6</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote

420 Course Catalog 2015-2016 Utah Valley University
Total Program Credits: 120

**Business Management - Hospitality Management Emphasis, B.S.**

**Careers**

Many opportunities exist for those trained in business management in the hospitality, tourism, and restaurant industries. US Dept of Labor reports estimate a 12% growth through 2022 in jobs requiring Bachelor’s degrees – such as those offered by the Business Management - Hospitality Management program. Possible jobs exist in domestic and international venues in these industries including business managers, business executives, operations managers, human resources managers, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas and the employment outlook is excellent.

**Related Careers**

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

**Business Management - International Business Emphasis, B.S.**

**Requirements**

Students majoring in business management may receive a Certificate of Completion, an Associate in Applied Science in Business Management, an Associate in Science with a pre-major in Business, a Bachelor of Science in Hospitality Management, or a Bachelor of Science in Business Management with a specialization in one of the following four areas: Entrepreneurship, General Business, Hospitality Management, or International Business. An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah.

**Total Program Credits: 120**

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing–Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing–Science and Technology</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following:

- HIST 2700  US History to 1877 (3.0)
- HIST 2710  US History since 1877 (3.0)
- HIST 1700  American Civilization (3.0)

**Elective Requirements:**

Select 10 credits of any non-Woodbury School of Business courses

**Emphasis Requirements:**

12 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following:

- PHIL 2050  Ethics and Values                      | 3       |
- HIST 1710  US History to 1877                      | 3       |
- HIST 1700  American Civilization                   | 3       |
- HIST 1710  US History to 1877                      | 3       |
- HIST 1700  American Civilization                   | 3       |
- HIST 1710  US History to 1877                      | 3       |
- HIST 1700  American Civilization                   | 3       |
- HIST 1710  US History to 1877                      | 3       |
- HIST 1700  American Civilization                   | 3       |
- HIST 1710  US History to 1877                      | 3       |
- HIST 1700  American Civilization                   | 3       |
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- HIST 1700  American Civilization                   | 3       |
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- HIST 1700  American Civilization                   | 3       |
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- HIST 1700  American Civilization                   | 3       |
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- HIST 1700  American Civilization                   | 3       |
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- HIST 1700  American Civilization                   | 3       |
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- HIST 1700  American Civilization                   | 3       |
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- HIST 1700  American Civilization                   | 3       |
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- HIST 1700  American Civilization                   | 3       |
- HIST 1710  US History to 1877                      | 3       |
- HIST 1700  American Civilization                   | 3       |
- HIST 1710  US History to 1877                      | 3       |
- HIST 1700  American Civilization                   | 3       |
Management

<table>
<thead>
<tr>
<th>Emphasis Elective Requirements:</th>
<th>15 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 15 pre-approved elective credits. See advisor for list of specific courses.</td>
<td>15</td>
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</tbody>
</table>

**Graduation Requirements:**

1. Completion of a minimum of 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

**NOTE:** Students will be limited to 15 hours of upper-division credit until MATRICULATION is completed.

---

**Footnote**

* Courses with an asterisk (*) cannot be taken until student is matriculated.

** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the DGM 2010 course with a score of 80 percent or higher.

***If MGMT 2240 is taken, an additional 1 credit of elective may be required. See Advisor.

---

**Business Management - International Business Emphasis, B.S.**

**Careers**

Many opportunities exist for those trained in business management and an emphasis in international business in private industry and through entrepreneurship. US Dept of Labor reports estimate a 12% growth through 2022 in jobs requiring Bachelor’s degrees—such as those offered by the Management Department. Possible jobs in international businesses include agents, business managers, human resource managers, purchasing managers. Job demand is high, particularly in larger metropolitan areas and the employment outlook is excellent. A current employer survey by the National Association of Colleges and Employers showed that 86% expected to hire graduates with BS degrees in business.

**Related Careers**

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

**Entrepreneurship, B.S.**

**Requirements**

Students minoring in the business management area of entrepreneurship will be exposed to and practice the skills needed by entrepreneurs in starting and developing their own businesses or growing the business of another entrepreneur.

---

**Total Program Credits: 120**

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing–Humanities/Social Sciences</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing–Science and Technology (3.0)</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra or Advanced Placement (AP) Mathematics Test score of 3 or higher</td>
</tr>
<tr>
<td>or</td>
<td>An Advanced Placement (AP) Mathematics Test with a score of 3 or higher</td>
</tr>
<tr>
<td>ENGL 1010</td>
<td>Principles of Finance *</td>
</tr>
<tr>
<td>LEGL 3220</td>
<td>Entrepreneurship Law</td>
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<tr>
<td>or LEGL 3000</td>
<td>Business Law</td>
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<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior</td>
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</tbody>
</table>

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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ACC 2010</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>ACC 2020</td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td>or IM 2010</td>
<td>Business Computer Proficiency (3.0)</td>
</tr>
<tr>
<td>ECON 2010</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>MGMT 2240</td>
<td>Business Quantitative Analysis</td>
</tr>
<tr>
<td>or MATH 1100</td>
<td>Introduction to Calculus (4.0)</td>
</tr>
<tr>
<td>MKTG 2200</td>
<td>Written Business Communication (Complete with a grade of B- or higher.)</td>
</tr>
<tr>
<td>MKTG 2340</td>
<td>Business Statistics I</td>
</tr>
<tr>
<td>MKTG 2390</td>
<td>Professional Business Presentations</td>
</tr>
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<td>FIN 3100</td>
<td>Principles of Finance *</td>
</tr>
<tr>
<td>or LEGL 3000</td>
<td>Business Law</td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior</td>
</tr>
</tbody>
</table>

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**Footnote**

* Courses with an asterisk (*) cannot be taken until student is matriculated.

** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the DGM 2010 course with a score of 80 percent or higher.

---

**Complete 15 pre-approved elective credits. See advisor for list of specific courses.**

**Graduation Requirements:**

1. Completion of a minimum of 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

**NOTE:** Students will be limited to 15 hours of upper-division credit until MATRICULATION is completed.
Management Information Systems 3
Survey of International Business 3
or Cross-Cultural Communications for International Business (3.0)
or International Economics (3.0)
or MKTG 335G International Marketing (3.0)
Operations Management * 3
Principles of Marketing 3
Entrepreneurship Personal Development 3
or Career Preparation (If students elect to take MKTG 3890 they will need to add an additional credit via MGMT 481R Internship.)
Business Strategy Formulation and Implementation * 4
Entrepreneurship Lecture Series (1.0) 1
Entrepreneurship Core Requirements:
Entrepreneurship 3
Entrepreneurship Technology-based Opportunity Identification * 3
New Venture Financing * 3
Entrepreneurship Enterprise Formation * 3
New Venture Consulting (3.0) *
Elective Requirements: 19 Credits
Select 12 credits from the following: 12
Small Business Development (3.0)
Entrepreneurship Business Planning (3.0)
Digital Marketing (3.0)
Advanced Digital Marketing and Analytics (3.0)
Advertising and Promotion (3.0)
Internship Approval needed by WSB Internship Manager (1.0)
Select 7 credits of any non-Woodbury School of Business courses 7

Graduation Requirements:
1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Footnote
* Courses with an asterisk (*) cannot be taken until student is matriculated.
** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the DGM 2010 course with a score of 80 percent or higher.

Entrepreneurship, B.S.
Careers
Many opportunities exist for those trained in business management (entrepreneurship) in private industry and through entrepreneurship. Possible jobs in developing other entrepreneurs’ businesses include agents, business managers, business executives, operations managers, health service administrators, human resource managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Possible jobs open as self-employed entrepreneurs are limited only by imagination and skills brought to the market.

Related Careers
- Chief Executives
- General and Operations Managers
- Managers, All Other
- Business Teachers, Postsecondary

Hospitality Management, B.S.
Requirements
The Bachelor of Science in Hospitality Management degree offers the possibility for a student to choose one of four specializations: General Operations; Revenue Management; Food and Beverage Management (designed mainly for Culinary Arts AAS graduates); and Foreign Language Track (which provides 12-15 hours of language credit).

Total Program Credits: 120

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3
- ENGL 2010 Intermediate Writing–Humanities/Social Sciences 3
- or ENGL 2020 Intermediate Writing–Science and Technology (3.0)
- or MATH 1030 Quantitative Reasoning 3
- or MATH 1040 Introduction to Statistics (3.0)
- or MATH 1050 College Algebra (4.0)

Complete one of the following: 3
- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- POLS 1000 American Heritage (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:
- PHIL 2050 Ethics and Values 3
- HLTH 1100 Personal Health and Wellness 2
- or PES 1097 Fitness for Life (2.0)

Distribution Courses:
- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Humanities Distribution 3
- Fine Arts Distribution 3
- ECON 1010 or ECON 2020 Economics as a Social Science or Macroeconomics (fulfills Social/Behavioral Science requirement) 3
Management

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>66 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Computer Proficiency Exam *</td>
<td></td>
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<tr>
<td>or</td>
<td>IM 2010</td>
</tr>
<tr>
<td></td>
<td>HM 1010</td>
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<tr>
<td></td>
<td>HM 1130</td>
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<td>HM 1180</td>
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<td>HM 3150</td>
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<td>HM 3390</td>
</tr>
<tr>
<td></td>
<td>HM 3640</td>
</tr>
<tr>
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<td>HM 3710</td>
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<td></td>
<td>HM 4550</td>
</tr>
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<td>HM 481R</td>
</tr>
<tr>
<td></td>
<td>ACC 2010</td>
</tr>
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<td>LEGL 3100</td>
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<td>MKTG 2200</td>
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</tr>
<tr>
<td></td>
<td>MGMT 332G</td>
</tr>
<tr>
<td></td>
<td>MKTG 3890</td>
</tr>
</tbody>
</table>

Complete one of the following four tracks: 15

<table>
<thead>
<tr>
<th>General Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 15 elective credit hours from ACC, ECON, FIN, HM, INFO, LEGL, MGMT, or MKTG courses</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Foreign Language Group: Complete the following levels of the same language</th>
</tr>
</thead>
<tbody>
<tr>
<td>1010 Beginning I</td>
</tr>
<tr>
<td>1020 Beginning II</td>
</tr>
<tr>
<td>2010 Intermediate I</td>
</tr>
<tr>
<td>3 credits from ACC, DGM, ECON, FIN, HM, INFO, LEGL, MGMT, or MKTG or LANG 2020, or 3050 or 3200</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Revenue Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 3000</td>
</tr>
<tr>
<td>HM 4150</td>
</tr>
<tr>
<td>INFO 3120</td>
</tr>
<tr>
<td>six credits from ACC, ECON, FIN, HM, LEGL, MGMT, or MKTG courses</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Food and Beverage (Culinary Arts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 1120</td>
</tr>
<tr>
<td>CA 1170</td>
</tr>
<tr>
<td>CA 282R</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4 credits from CA courses 1000 level or higher.</th>
</tr>
</thead>
</table>

Elective Requirements: 19 Credits

<table>
<thead>
<tr>
<th>Complete six hours of electives from ACC, DGM, ECON, FIN, HM, INFO, LEGL MGMT, or MKTG 3000-level or higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 13 hours of electives from any course 1000 level or higher</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 120 semester credits with at least 40 credit hours of upper-division classes.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours. At least 12 of the credit hours must be in Hospitality Management courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote

* Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

Hospitality Management, B.S.

Careers:

The Hospitality Management program prepares graduates for employment in one of the fastest growing segments of the nation’s economy. The additions of several new convention centers in the state have dramatically increased the need for hotel and restaurant facilities. Students are marketable in a wide range of hospitality and tourism areas such as: hotel, resort, and motel management; event planning; restaurant and institutional food service; and a number of other areas such as cruise ship management, amusement park management, convention and visitor facilities, and gaming facilities.

Related Careers

- Food Service Managers
- Lodging Managers
Marketing

Name: Marketing
Location: WB 235
Telephone: 801-863-8098
Email: Ann.Mecham@uvu.edu
Web Address: uvu.edu/woodbury/marketing/
Chair: Paul Dishman

Mission Statement
As a community-engaged school of business that integrates teaching and scholarship, we aspire to be a school of choice and a leader in student development, entrepreneurship, global involvement, and innovative teaching.

In December, 2006, The UVU School of Business earned its international accreditation from AACSB International - The Association to Advance Collegiate Schools of Business.

Marketing
Career Opportunities
For those trained in marketing, career opportunities are available in advertising, brand and product management, customer affairs, industrial marketing, international marketing, marketing research and intelligence, new product planning, marketing logistics (physical distribution), public relations, purchasing, retail management, internet marketing, and sales and sales management.

Job Outlook
Almost a third of all Americans are employed in marketing-related positions. From large corporations to small companies, both in manufacturing and service areas, firms rely on marketers.

Programs
Students in Marketing may receive a Bachelor of Science, Bachelor of Arts, or a Minor in Marketing.

Woodbury School of Business
Advisement Center:
• Office: WB 257
• Telephone: 801-863-8032
Dean: Norman S. Wright
• Office: WB 128b
• Telephone: 801-863-8260
• Email: Norman.Wright@uvu.edu

DEPARTMENT CHAIR
DISHMAN, Paul Associate Professor

FACULTY
BAIRD, Deborah K. Associate Professor
BARBER, Jennie Lecturer
BETTRIDGE, Amy Lecturer
BOTT, Laurie Lecturer
BROWN, Marc Nathaniel Professional in Residence
CARTER, Larry L. Associate Professor
DISHMAN, Paul Associate Professor
GARDINER, S. Paige Professional in Residence
HAWKES, Joshua Lecturer
HUFF, Steven Associate Professor
MAXFIELD, Neal Lecturer
MILLER, Duane B. Professor
RHOADS, Kevin A. Assistant Professor
TAUTE, Harry A. Associate Professor
TWYMAN, Cherie Lecturer
WORKMAN, Letty Associate Professor

Course Descriptions
Marketing............................................................................................................686

Degrees & Programs
Marketing, Minor

Requirements
The Marketing Department offers students three different tracks in the marketing minor, each providing a theoretical and in-depth professional preparation in the field. The first is the Marketing Management track, which provides a broad base of experiential classes and the most flexibility in scheduling for employed students. The second is the Digital Marketing track, which provides courses in internet marketing, social media, and web analytics. The newest track is Professional Selling, which prepares students for a career in sales with courses in personal selling, sales management, and sales analytics. Whichever track is chosen, a professional internship is highly encouraged.

Total Program Credits: 18

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>12 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 335G International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3600 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3620 Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 4600 Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>Elective Requirements:</td>
<td>6 Credits</td>
</tr>
<tr>
<td>Select 6 credits from the following:</td>
<td>6</td>
</tr>
<tr>
<td>MKTG 3220 Retail Management (3.0)</td>
<td></td>
</tr>
<tr>
<td>MKTG 3630 Services Marketing (3.0)</td>
<td></td>
</tr>
<tr>
<td>MKTG 3650 Professional Selling (3.0)</td>
<td></td>
</tr>
<tr>
<td>MKTG 3660 Digital Marketing (3.0)</td>
<td></td>
</tr>
<tr>
<td>MKTG 3670 Advertising and Promotion (3.0)</td>
<td></td>
</tr>
<tr>
<td>MKTG 4400 Competitive Intelligence (3.0)</td>
<td></td>
</tr>
</tbody>
</table>
## Marketing

### Marketing, Minor

#### Careers

Almost a third of all Americans are employed in marketing-related positions. Marketing graduates are in high demand in business, non-profit, and government service. Traditional career paths for students with marketing degrees include: brand management, advertising and promotion, professional sales, market research, pricing, product strategy, consumer behavior, event management, and international marketing. Many marketing graduates begin their careers, and then continue their education with a master's degree in Marketing.

- Advertising Director
- Advertising Sales
- Brand/Product Manager
- Buyer, Merchandiser
- Channel Marketing Specialist
- Client Services Manager
- Communications Planning
- Content Strategist
- Digital Investment Manager
- Managing Director
- Director of Interactive Products
- E-Mail Marketing
- Event Management Analyst
- Event Manager
- Inbound Marketing Manager
- Marketing Communications Manager
- Market Researcher
- Marketing Coordinator

### Related Careers

- Advertising and Promotions Managers
- Marketing Managers
- Sales Managers
- Market Research Analysts and Marketing Specialists
- Business Teachers, Postsecondary

### Marketing, B.A.

#### Requirements

The Marketing Department offers students three different tracks each providing a theoretical and in-depth professional preparation in the field. The first is the Marketing Management track which provides a broad base of experiential classes and the most flexibility in scheduling for employed students. The second is the Digital Marketing track which provides courses in internet marketing, social media, and web analytics. The newest track is Sales which prepares students for a career in sales with courses in personal selling, sales management, and sales analytics. Whichever track is chosen, a professional internship is highly encouraged.

**Total Program Credits: 122**

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>37 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing—Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing—Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

### Business Foundation Courses:

- ACC 2010 Financial Accounting (3.0) | 3 |
- ACC 2020 Managerial Accounting (3.0) | 3 |
- Business Computer Proficiency Exam
  - or IM 2010 Business Computer Proficiency (3.0) ** | |
- ECON 2010 Microeconomics | 3 |
- MATH 1100 Introduction to Calculus | 3 |
- or MGMT 2240 Business Quantitative Analysis (3.0) | |
- MGMT 2340 Business Statistics I | 3 |
- MKTG 2200 Written Business Communication * (Complete with a B- grade or higher) | 3 |
- MKTG 2390 Professional Business Presentations | 3 |

### Business Core Courses:

- FIN 3100 Principles of Finance * | 3 |
- INFO 3120 Management Information Systems | 3 |
- LEGL 3000 Business Law | 3 |
- MKTG 3600 Principles of Marketing | 3 |
- MKTG 3000 Organizational Behavior | 3 |
- MKTG 3450 Operations Management * | 3 |
- MKTG 3890 Career Preparation | 2 |
- MKTG 4860 Business Strategy Formulation and Implementation * | 4 |
- MKTG 493R Entrepreneurship Lecture Series (1.0) | |
- or MKTG 496R Executive Lecture Series | 1 |

### Distribution Courses:

- ECON 2020 Macroeconomics * (fulfills Social/Behavioral Science credit) | 3 |
- Biology | 3 |
- Physical Science | 3 |
- Additional Biology or Physical Science | 3 |
- Humanities Distribution (Any Foreign Language 202G/2020 course) | 4 |
- Fine Arts Distribution | 3 |

### Discipline Core Requirements:

- 58 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 2010</td>
<td>Financial Accounting (3.0)</td>
</tr>
<tr>
<td>ACC 2020</td>
<td>Managerial Accounting (3.0)</td>
</tr>
<tr>
<td>IM 2010</td>
<td>Business Computer Proficiency (3.0) **</td>
</tr>
<tr>
<td>ECON 2010</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>MATH 1100</td>
<td>Introduction to Calculus</td>
</tr>
<tr>
<td>MGMT 2240</td>
<td>Business Quantitative Analysis (3.0)</td>
</tr>
<tr>
<td>MGMT 2340</td>
<td>Business Statistics I</td>
</tr>
<tr>
<td>MKTG 2200</td>
<td>Written Business Communication * (Complete with a B- grade or higher)</td>
</tr>
<tr>
<td>MKTG 2390</td>
<td>Professional Business Presentations</td>
</tr>
<tr>
<td>FIN 3100</td>
<td>Principles of Finance *</td>
</tr>
<tr>
<td>INFO 3120</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>LEGL 3000</td>
<td>Business Law</td>
</tr>
<tr>
<td>MKTG 3600</td>
<td>Principles of Marketing</td>
</tr>
<tr>
<td>MKTG 3000</td>
<td>Organizational Behavior</td>
</tr>
<tr>
<td>MKTG 3450</td>
<td>Operations Management *</td>
</tr>
<tr>
<td>MKTG 3890</td>
<td>Career Preparation</td>
</tr>
<tr>
<td>MKTG 4860</td>
<td>Business Strategy Formulation and Implementation *</td>
</tr>
<tr>
<td>MKTG 493R</td>
<td>Entrepreneurship Lecture Series (1.0)</td>
</tr>
<tr>
<td>or MKTG 496R</td>
<td>Executive Lecture Series</td>
</tr>
</tbody>
</table>
MKTG 335G  International Marketing  3  
MKTG 3620  Consumer Behavior  3  
MKTG 4600  Marketing Research  3  
MKTG 4650  Marketing Management  3  

Elective Requirements:  27 Credits  

Complete one of three Marketing tracks as part of 15 elective credits from the following courses:  

Sales Track  
MKTG 3640  Sales Management (3.0)  
MKTG 3650  Professional Selling (3.0)  
MKTG 4610  Sales Analytics (3.0)  
MKTG 482R  Sales Internship (must be taken three times) (1.0)  
An additional three hours of upper-division Marketing courses.  

Digital Marketing Track  
MKTG 3660  Digital Marketing (3.0)  
MKTG 3680  Marketing with Social Media (3.0)  
MKTG 3690  Advanced Digital Marketing and Analytics (3.0)  
MKTG 483R  Digital Marketing Internship (must be taken three times) (1.0)  
An additional three hours of upper-division Marketing courses.  

Marketing Management Track (15 of the 15 required electives)  
MKTG 3220  Retail Management (3.0)  
MKTG 3460  Internal Marketing and Corporate Imaging (3.0)  
MKTG 3630  Services Marketing (3.0)  
MKTG 3640  Sales Management (3.0)  
MKTG 3650  Professional Selling (3.0)  
MKTG 3660  Digital Marketing (3.0)  
MKTG 3670  Advertising and Promotion (3.0)  
MKTG 3680  Marketing with Social Media (3.0)  
MKTG 3690  Advanced Digital Marketing and Analytics (3.0)  
MKTG 4400  Competitive Intelligence (3.0)  
MKTG 481R  Marketing Internship (1.0)  
MKTG 4610  Sales Analytics (3.0)  
MKTG 459R  Advanced Topics in Marketing (3.0)  
Complete 12 credits of any foreign language course 1010, 1020, 2010 sequence  12  

Graduation Requirements:  
1. Completion of a minimum of 122 semester credits required in the BA degree; at least 40 credit hours must be upper-division courses.  
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a “C-” in core and specialization courses.  
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.  
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.  
5. Successful completion of at least one Global/Intercultural course.  

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.  

Marketing, B.A.  

Careers  

Almost a third of all Americans are employed in marketing-related positions. Marketing graduates are in high demand in business, non-profit, and government service. Traditional career paths for students with marketing degrees include: brand management, advertising and promotion, professional sales, market research, pricing, product strategy, consumer behavior, event management, and international marketing. Many marketing graduates begin their careers, and then continue their education with a master’s degree in Marketing.  

Advertising Director  
Advertising Sales  
Brand/Product Manager  
Buyer, Merchandiser  
Channel Marketing Specialist  
Client Services Manager  
Communications Planning  
Content Strategist  
Digital Investment Manager Managing Director  
Director of Interactive Products  
E-Mail Marketing  
Event Management Analyst  
Event Manager  
Inbound Marketing Manager  
Marketing Communications Manager  
Market Researcher  
Marketing Coordinator  

Related Careers  
- Advertising and Promotions Managers  
- Marketing Managers  
- Sales Managers  
- Market Research Analysts and Marketing Specialists  
- Business Teachers, Postsecondary  

Marketing, B.S.  

Requirements  
The Marketing department offers students three different tracks each providing a theoretical and in-depth professional preparation in the field. The first is the Marketing Management track which provides a broad base of experiential classes and the most flexibility in scheduling for employed students. The second is the Digital Marketing track which provides courses in internet marketing, social media, and web analytics. The newest track is Professional Selling which prepares students for a career in sales with courses in personal selling, sales management, and sales analytics. Whichever track is chosen, a professional internship is highly encouraged.  

Total Program Credits: 120  

General Education Requirements: 36 Credits  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
</tbody>
</table>
ENGL 2010  Intermediate Writing--Humanities/Social Sciences  3
or ENGL 2020  Intermediate Writing--Science and Technology (3.0)
MATH 1050  College Algebra  4
or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

Complete one of the following:  3
  HIST 2700  US History to 1877 (3.0)
and
  HIST 2710  US History since 1877 (3.0)
  HIST 1700  American Civilization (3.0)
  HIST 1740  US Economic History (3.0)
POLS 1000  American Heritage (3.0)
POLS 1100  American National Government (3.0)

Complete the following:
  PHIL 2050  Ethics and Values  3
  HLTH 1100  Personal Health and Wellness (2.0)
or
  PES 1097  Fitness for Life  2

Distribution Courses:
  ECON 2020  Macroeconomics * (fulfills Social/Behavioral Science credit)  3
  Biology  3
  Physical Science  3
  Additional Biology or Physical Science  3
  Humanities Distribution  3
  Fine Arts Distribution  3

Discipline Core Requirements:  59 Credits

Business Foundation Courses:
  ACC 2010  Financial Accounting (3.0)  3
  ACC 2020  Managerial Accounting (3.0)  3
  MATH 1100  Introduction to Calculus  4
or
  IM 2010  Business Computer Proficiency Exam (3.0) **
  ECON 2010  Microeconomics  3
  Business Computer Proficiency Exam

Business Core Courses:
  FIN 3100  Principles of Finance *  3
  INFO 3120  Management Information Systems  3
  LEGL 3000  Business Law  3
  MKTG 3600  Principles of Marketing  3
  MGMT 3000  Organizational Behavior  3
  MGMT 3450  Operations Management *  3
  MKTG 3890  Career Preparation  2
  MGMT 4860  Business Strategy Formulation and Implementation *  4

Marketing Core:
  MKTG 335G  International Marketing  3
  MKTG 3620  Consumer Behavior  3
  MKTG 4600  Marketing Research  3
  MKTG 4650  Marketing Management  3

Elective Requirements:  25 Credits

Complete one of three Marketing tracks as part of 15 elective credits from the following courses:  15

Sales Track (12 of the 15 required electives)
  MKTG 3640  Sales Management (3.0)
  MKTG 3650  Professional Selling (3.0)
  MKTG 4610  Sales Analytics (3.0)
  MKTG 482R  Sales Internship (must be taken three times) (1.0)

Digital Marketing Track (12 of the 15 required electives)
  MKTG 3660  Digital Marketing (3.0)
  MKTG 3680  Marketing with Social Media (3.0)
  MKTG 3690  Advanced Digital Marketing and Analytics (3.0)
  MKTG 483R  Digital Marketing Internship (must be taken three times) (1.0)

Marketing Management Track (15 of the 15 required electives)
  MKTG 3220  Retail Management (3.0)
  MKTG 3460  Internal Marketing and Corporate Imaging (3.0)
  MKTG 3630  Services Marketing (3.0)
  MKTG 3640  Sales Management (3.0)
  MKTG 3650  Professional Selling (3.0)
  MKTG 3660  Digital Marketing (3.0)
  MKTG 3670  Advertising and Promotion (3.0)
  MKTG 3680  Marketing with Social Media (3.0)
  MKTG 3690  Advanced Digital Marketing and Analytics (3.0)
  MKTG 4400  Competitive Intelligence (3.0)
  MKTG 481R  Marketing Internship (1.0)
  MKTG 4610  Sales Analytics (3.0)
  MKTG 459R  Advanced Topics in Marketing (3.0) *

Select 10 credits from any other non-Woodbury School of Business course:  10

Graduation Requirements:
1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.
NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote
* Courses with an asterisk (*) cannot be taken until student is matriculated.
** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.
*** If MGMT 2240 is taken, an additional 1 credit of elective may be required. See Advisor.

Marketing, B.S.

Careers

Almost a third of all Americans are employed in marketing-related positions. Marketing graduates are in high demand in business, non-profit, and government service. Traditional career paths for students with marketing degrees include: brand management, advertising and promotion, professional sales, market research, pricing, product strategy, consumer behavior, event management, and international marketing. Many marketing graduates begin their careers, and then continue their education with a master's degree in Marketing.

Advertising Director
Advertising Sales
Brand/Product Manager
Buyer, Merchandiser
Channel Marketing Specialist
Client Services Manager
Communications Planning
Content Strategist
Digital Investment Manager Managing Director
Director of Interactive Products
E-Mail Marketing
Event Management Analyst
Event Manager
Inbound Marketing Manager
Marketing Communications Manager
Market Researcher
Marketing Coordinator

Related Careers

- Advertising and Promotions Managers
- Marketing Managers
- Sales Managers
- Market Research Analysts and Marketing Specialists
- Business Teachers, Postsecondary
Mission Statement

The Utah Valley University Mathematics Department’s primary purpose is to educate students in mathematics, mathematics education, and statistics. The department prepares students for both graduate degrees and productive careers by fostering a rigorous development of cognitive skills, helping them to analyze logical inferences, reason critically, and apply mathematical ideas to solve real world problems. The department's other functions include service which supports the mission of the University, and the development of scholarly work to both advance research and facilitate student engagement in current areas of interest.

Mathematics

- Advisor: Colin Brinkerhoff
  - Office: LA 109a
  - Telephone: 801-863-7419
  - Email: brinkec0@uvu.edu

- Administrative Support: Celena Patten
  - Office: LA 109
  - Telephone: 801-863-8650
  - Email: pattence@uvu.edu

Program Coordinators:

- Math Education: Christine Walker
  - Office: LA 121k
  - Telephone: 801-863-8634
  - Email: Christine.Walker@uvu.edu

- Statistics: Erik Heiny
  - Office: LA 109k
  - Telephone: 801-863-6281
  - Email: Erik.Heiny@uvu.edu

Course Descriptions

Mathematics ........................................................................................................ 675
Statistics ............................................................................................................. 729

Degrees & Programs

Mathematics, A.A.

Requirements

Total Program Credits: 61

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
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</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030 Quantitative Reasoning (3.0)</td>
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</tr>
<tr>
<td>MATH 1040 Introduction to Statistics (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050 College Algebra (4.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740 US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000 American Heritage (3.0)</td>
<td></td>
</tr>
</tbody>
</table>
Mathematics

POLS 1100 American National Government (3.0)

Complete the following:

PHIL 2050 Ethics and Values 3
HLTH 1100 Personal Health and Wellness 2
or PES 1097 Fitness for Life (2.0)

Distribution Courses

- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Humanities Distribution 3
- Fine Arts Distribution 3
- Social/Behavioral Science 3

Discipline Core Requirements: 16 Credits

MATH 1210 Calculus I 5
MATH 1220 Calculus II 5

Complete 6 credits from the following: 6

MATH 2210 Calculus III (3.0)
MATH 2040 Principles of Statistics (4.0)
MATH 2270 Linear Algebra (3.0)
MATH 2280 Ordinary Differential Equations (3.0)
MATH 3400 Partial Differential Equations (3.0)

Elective Requirements: 10 Credits

- Same Foreign Language 8
- Any course 1000 or higher (MATH 1060 suggested) 2

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements
5. For the AA degree, completion of 8 credit hours of course work from one language.

Mathematics, A.A.

Careers

Mathematics, A.A. Careers

Related Careers

- Natural Sciences Managers
- Mathematicians
- Statisticians
- Mathematical Science Occupations, All Other
- Mathematical Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Mathematics, A.S.

Requirements

Total Program Credits: 63

General Education Requirements: 35 Credits

ENGL 1010 Introduction to Writing 3

ENGL 2010 Intermediate Writing–Humanities/Social Sciences 3
or ENGL 2020 Intermediate Writing–Science and Technology (3.0)

Complete one of the following:

MATH 1030 Quantitative Reasoning (3.0)
MATH 1040 Introduction to Statistics (3.0)
MATH 1050 College Algebra (4.0)

Complete one of the following:

HIST 2700 US History to 1877 (3.0)
and HIST 2710 US History since 1877 (3.0)
HIST 1700 American Civilization (3.0)
HIST 1740 US Economic History (3.0)
POLS 1000 American Heritage (3.0)
POLS 1100 American National Government (3.0)

Complete the following:

PHIL 2050 Ethics and Values 3
HLTH 1100 Personal Health and Wellness 2
or PES 1097 Fitness for Life (2.0)

Distribution Courses:

- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Humanities Distribution 3
- Fine Arts Distribution 3
- Social/Behavioral Science 3

Discipline Core Requirements: 16 Credits

MATH 1210 Calculus I 5
MATH 1220 Calculus II 5

Complete six credits from the following: 6

MATH 2210 Calculus III (3.0)
MATH 2040 Principles of Statistics (4.0)
MATH 2270 Linear Algebra (3.0)
MATH 2280 Ordinary Differential Equations (3.0)
MATH 3400 Partial Differential Equations (3.0)

Elective Requirements: 12 Credits

- Any course 1000 or higher (MATH 1060 suggested) 12

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Mathematics, A.S.

Careers

Mathematics, A.S. Careers

Related Careers

- Natural Sciences Managers
Mathematics

- Mathematicians
- Statisticians
- Mathematical Science Occupations, All Other
- Mathematical Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Mathematics, Minor

Requirements

Total Program Credits: 25

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 25 Credits

- MATH 1210 Calculus I 5
- MATH 1220 Calculus II 5
- MATH 2210 Calculus III 3
- MATH 2270 Linear Algebra 3
- MATH 2280 Ordinary Differential Equations 3

Choose at least two mathematics courses from the mathematics courses numbered 3200 and above, excluding MATH 481R. 6

Mathematics, Minor Careers

Mathematics, Minor Careers

Related Careers
- Natural Sciences Managers
- Mathematicians
- Statisticians
- Mathematical Science Occupations, All Other
- Mathematical Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Mathematics - Actuarial Science Emphasis, B.S.

Requirements

Total Program Credits: 120

Matriculation Requirements:
1. Completion of MATH 1210 and MATH 1220 (or equivalent) with an overall GPA of 2.5 or better
2. Student must meet with the Math Department advisor and declare an intent to major in Mathematics

General Education Requirements: 38 Credits

- ENGL 1010 Introduction to Writing 3
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) 4

Complete one of the following: 3

- HIST 2700 US History to 1877 (3.0)
- or HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)

Elective Requirements: 23 Credits

- Complete 11 credits of upper division electives
- Complete 12 credits of upper or lower division electives

Emphasis Requirements: 28 Credits

- ECON 2010 Microeconomics 3
- ECON 2020 Macroeconomics 3
- ACC 2010 Financial Accounting (3.0)
- and ACC 2020 Managerial Accounting (3.0)
- or ACC 3000 Financial Managerial and Cost Accounting Concepts 3
- FIN 3100 Principles of Finance 3
- MATH 3710 Applied Regression and Time Series 4
- MATH 3750 Financial Mathematics 3
- MATH 4710 Mathematical Statistics I 3
- MATH 4720 Mathematical Statistics II 3
- MATH 4750 Life Contingencies 3

Emphasis Elective Requirements: 3 Credits

- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3
- HILTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2

Distribution Courses: 3

- Biology
- PHYS 2210 Physics for Scientists and Engineers I 4
- PHYS 2215 Physics for Scientists and Engineers I Lab 1
- PHYS 2220 Physics for Scientists and Engineers II (4.0) (Required for Mathematics and Applied Mathematics Emphasis)
- and PHYS 2225 Physics for Scientists and Engineers II Lab (1.0) (Required for Mathematics and Applied Mathematics Emphasis)

or One other Biology or Physical Science Distribution (Required for Actuarial Science Emphasis)

- Humanities Distribution 3
- Fine Arts Distribution 3
- Social/Behavioral Science 3

Discipline Core Requirements: 28 Credits

- MATH 1210 Calculus I 5
- MATH 1220 Calculus II 5
- MATH 2210 Calculus III 3
- MATH 2270 Linear Algebra 3
- MATH 2280 Ordinary Differential Equations 3
- MATH 3300 Foundations of Abstract Algebra 3
- MATH 3310 Discrete Mathematics 3
- MATH 4210 Advanced Calculus I * 3

- Elective Requirements: 23 Credits
- Complete 11 credits of upper division electives
- Complete 12 credits of upper or lower division electives

- Emphasis Requirements: 28 Credits
- ECON 2010 Microeconomics 3
- ECON 2020 Macroeconomics 3
- ACC 2010 Financial Accounting (3.0)
- and ACC 2020 Managerial Accounting (3.0)
- or ACC 3000 Financial Managerial and Cost Accounting Concepts 3
- FIN 3100 Principles of Finance 3
- MATH 3710 Applied Regression and Time Series 4
- MATH 3750 Financial Mathematics 3
- MATH 4710 Mathematical Statistics I 3
- MATH 4720 Mathematical Statistics II 3
- MATH 4750 Life Contingencies 3

- Emphasis Elective Requirements: 3 Credits
Complete one additional MATH course chosen from the following: 3

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 3100</td>
<td>Foundations of Geometry (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 3200</td>
<td>Foundations of Analysis (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 3210</td>
<td>Complex Variables (3.0)</td>
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<tr>
<td>MATH 3400</td>
<td>Partial Differential Equations (3.0)</td>
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<tr>
<td>MATH 4000</td>
<td>Introduction to Probability (3.0)</td>
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<td>MATH 4220</td>
<td>Advanced Calculus II (3.0)</td>
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<td>MATH 4310</td>
<td>Introduction to Modern Algebra I (3.0)</td>
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<tr>
<td>MATH 4320</td>
<td>Introduction to Modern Algebra II (3.0)**</td>
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<td>MATH 4330</td>
<td>Theory of Linear Algebra (3.0)</td>
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<td>MATH 4340</td>
<td>Introduction to Number Theory (3.0)</td>
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<td>MATH 4510</td>
<td>Foundations of Topology (3.0)</td>
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<td>MATH 4610</td>
<td>Introduction to Numerical Analysis I (3.0)</td>
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<td>MATH 4620</td>
<td>Introduction to Numerical Analysis II (3.0)**</td>
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<tr>
<td>MATH 490R</td>
<td>Topics in Mathematics (2.0)</td>
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</tbody>
</table>

**Footnotes:**

* Students planning to do graduate work in mathematics should take both of the year-long sequences MATH 4210, 4220, and MATH 4310, 4320, and acquire a reading knowledge of at least one foreign language chosen from French, German, or Russian.

** Requires completion of a prerequisite course, which fulfills elective requirements.

### Graduation Requirements:

1. Completion of a minimum of 120 semester credits with at least 40 credit hours in upper-division courses.
2. Overall grade point average of 2.0 (C) or above, a minimum GPA of 2.4 in all MATH courses listed above, with no grade lower than a "C" in all listed PHYS and MATH courses (substitutions may be granted for some elective courses).
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of general education and specified departmental requirements.
5. Complete an exit survey administered by the Mathematics Department Advisor.
6. Successful completion of at least one Global/Intercultural course.

## Mathematics - Actuarial Science Emphasis, B.S.

### Careers

Mathematics - Actuarial Science Emphasis, B.S. Careers

### Related Careers

- Natural Sciences Managers
- Mathematicians
- Statisticians
- Mathematical Science Occupations, All Other
- Mathematical Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

### Mathematics - Applied Mathematics Emphasis, B.S.

#### Requirements

**Total Program Credits: 120**

**Matriculation Requirements:**

1. Completion of MATH 1210 and MATH 1220 (or equivalent) with an overall GPA of 2.5 or better
2. Student must meet with the Math Department advisor and declare an intent to major in Mathematics

**Discipline Core Requirements:**

- MATH 1210 Calculus I
- MATH 1220 Calculus II
- MATH 2210 Calculus III
- MATH 2270 Linear Algebra
- MATH 2280 Ordinary Differential Equations
- MATH 3300 Foundations of Abstract Algebra
- MATH 3310 Discrete Mathematics
- MATH 4210 Advanced Calculus I *

**Elective Requirements:**

- Complete 11 credits of upper division electives
- Complete 12 credits of upper or lower division electives

**Emphasis Requirements:**

- Complete all of the following:
  - CS 2250 Java Programming (3.0)
  - or CS 2370 C-plus-plus Programming (3.0)
MATH 3040  Probability and Statistics for Engineering and the Sciences  (3.0)
or
MATH 4000  Introduction to Probability  3
MATH 3210  Complex Variables  3
MATH 3300  Foundations of Abstract Algebra  3
MATH 4610  Introduction to Numerical Analysis I  3
MATH 4620  Introduction to Numerical Analysis II  3
MATH 4999  Mathematics Capstone  2

Emphasis Elective Requirements:  11 Credits
Complete 11 credits chosen from the following:

- MATH 3400  Partial Differential Equations (3.0)
- MATH 3710  Applied Regression and Time Series (4.0)
- MATH 3750  Financial Mathematics (3.0)
- MATH 4220  Advanced Calculus II (3.0)
- MATH 4330  Theory of Linear Algebra (3.0)
- MATH 4510  Foundations of Topology (3.0)
- MATH 4710  Mathematical Statistics I (3.0)
- MATH 4750  Mathematical Statistics II (3.0)
- MATH 490R  Topics in Mathematics (2.0)
- MATH 5510  General Topology (3.0)

Graduation Requirements:
1. Completion of a minimum of 120 semester credits with at least 40 credit hours in upper-division courses.
2. Overall grade point average of 2.0 (C) or above, a minimum GPA of 2.4 in all MATH courses listed above, with no grade lower than a "C" in all listed PHYS and MATH courses (substitutions may be granted for some elective courses).
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of general education and specified departmental requirements.
5. Complete an exit survey administered by the Mathematics Department Advisor.
6. Successful completion of at least one Global/Intercultural course.

Footnote:
* Students planning to do graduate work in mathematics should take both of the year-long sequences MATH 4210, 4220, and MATH 4310, 4320, and acquire a reading knowledge of at least one foreign language chosen from French, German, or Russian.
** Requires completion of a prerequisite course, which fulfills elective requirements.

Mathematics - Mathematics Emphasis, B.S.

Total Program Credits: 120

Matriculation Requirements:
1. Completion of MATH 1210 and MATH 1220 (or equivalent) with an overall GPA of 2.5 or better
2. Student must meet with the Math Department advisor and declare an intent to major in Mathematics

General Education Requirements: 38 Credits
ENGL 1010  Introduction to Writing  3

Elective Requirements: 23 Credits
Complete 11 credits of upper division electives
Complete 12 credits of upper or lower division electives

Emphasis Requirements: 11 Credits
Complete all of the following:
MATH 3210  Complex Variables  3
MATH 4220  Advanced Calculus II  3
MATH 4310  Introduction to Modern Algebra I  3
Mathematics - Mathematics Emphasis, B.S.

Requirements

Total Program Credits: 126

Matriculation Requirements:
1. Completion of MATH 1210, 1220, and 2210 with a 3.0 GPA.
2. Completion of MATH 2040 with a grade of "B-" or higher.
3. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read Math 1000, with Math and Reading scores of 450, or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
4. GPA of 3.0 or higher with no grade lower than a C in content area courses.
5. Completion of all General Education requirements and the majority of content area courses.
6. Pass group interview directed by the Secondary Teacher Education Department.
7. Pass LiveScan Criminal Background Check.

General Education Requirements:

- ENGL 1010 Introduction to Writing 3
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- Complete one of the following: 3
  - HIST 2700 US History to 1877 (3.0)
  - HIST 2710 US History since 1877 (3.0)
  - HIST 1700 American Civilization (3.0)
  - HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)
- Complete the following:
  - PHIL 2050 Ethics and Values 3
  - HLTH 1100 Personal Health and Wellness 2
  - or PES 1097 Fitness for Life (2.0)

Distribution Courses
- Biology 3
- PHYS 2210 Physics for Scientists and Engineers I 4
- PHYS 2215 Physics for Scientists and Engineers I Lab 1
- Additional Biology or Physical Science (PHYS 2220 recommended) 3
- Humanities Distribution 3
- Fine Arts Distribution 3
- Social/Behavioral Science 3

Discipline Core Requirements:

- MATH 1210 Calculus I 5
- MATH 1220 Calculus II 5
- MATH 2210 Calculus III 3
- MATH 2040 Principles of Statistics 4
- MATH 2270 Linear Algebra 3
- MATH 2280 Ordinary Differential Equations 3
- MATH 3000 History of Mathematics 3

Footnotes:
* Students planning to do graduate work in mathematics should take both of the year-long sequences MATH 4210, 4220, and MATH 4310, 4320, and acquire a reading knowledge of at least one foreign language chosen from French, German, or Russian.
**Requires completion of a prerequisite course, which fulfills elective requirements.

Mathematics Education, B.S.

Careers

Mathematics - Mathematics Emphasis, B.S. Careers

Related Careers
- Natural Sciences Managers
- Mathematicians
- Statisticians
- Mathematical Science Occupations, All Other
- Mathematical Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Graduation Requirements:
1. Completion of a minimum of 120 semester credits with at least 40 credit hours in upper-division courses.
2. Overall grade point average of 2.0 (C) or above, a minimum GPA of 2.4 in all MATH courses listed above, with no grade lower than a "C" in all listed PHYS and MATH courses (substitutions may be granted for some elective courses).
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of general education and specified departmental requirements.
5. Complete an exit survey administered by the Mathematics Department Advisor.
6. Successful completion of at least one Global/Intercultural course.
Mathematics

<table>
<thead>
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<th>Course Title</th>
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<td>MATH 3010</td>
<td>Methods of Secondary School Mathematics Teaching</td>
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<tr>
<td>MATH 3020</td>
<td>Computer-Based Mathematics for Secondary School Mathematics Teachers</td>
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<td>MATH 3100</td>
<td>Foundations of Geometry</td>
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<td>MATH 3200</td>
<td>Foundations of Analysis</td>
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<td>MATH 3300</td>
<td>Foundations of Abstract Algebra</td>
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<td>MATH 3400</td>
<td>Probability and Statistics for Engineering and the Sciences</td>
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<td>EDSC 3000</td>
<td>Educational Psychology</td>
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<td>EDSC 3050</td>
<td>Foundations of American Education</td>
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<td>EDSC 3250</td>
<td>Instructional Media</td>
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<td>EDS 4300</td>
<td>Exceptional Students</td>
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<td>EDSC 4200</td>
<td>Classroom Management I</td>
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<td>EDSC 4440</td>
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<td>Multicultural Instruction ESL</td>
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<td>EDSC 4550</td>
<td>Secondary Curriculum Instruction and Assessment</td>
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<tr>
<td>EDSC 4850</td>
<td>Student Teaching-Senior</td>
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</table>

Complete 16 credits of any courses 1000 or higher (Minor strongly recommended) 16

Graduation Requirements:
1. Completion of a minimum of 126 semester credits with at least 40 credit hours in upper-division courses.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours – minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of a minor in a discipline other than mathematics.
6. Completion of Math Department Exit Survey.
7. Successful completion of at least one Global/Intercultural course.

Mathematics Education, B.S.

Careers
Mathematics Education, B.S. Careers

Related Careers
- Mathematical Science Teachers, Postsecondary
- Education Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Statistics, B.S.

Requirements
Total Program Credits: 120

Matriculation Requirements:
1. Completion of MATH 1210 and MATH 1220 (or equivalent) with an overall GPA of 2.0 or better
2. Student must meet with the math department advisor and declare an intent to major in statistics.

General Education Requirements: 37 Credits

ENGL 1010 Introduction to Writing (3.0) 3

or ENGL 2010 Intermediate Writing-Humanities/Social Sciences (3.0) 3

or ENGL 2020 Intermediate Writing-Science and Technology (3.0)

or MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3

HIST 2700 US History to 1877 (3.0)

HIST 2710 US History since 1877 (3.0)

HIST 1700 American Civilization (3.0)

HIST 1740 US Economic History (3.0)

POLS 1000 American Heritage (3.0)

POLS 1100 American National Government (3.0)

Complete the following:

PHIL 2050 Ethics and Values (3.0) 3

HLTH 1100 Personal Health and Wellness (2.0) 2

or PES 1097 Fitness for Life (2.0)

Distribution Courses:

Biology 3

PHYS 2210 Physics for Scientists and Engineers I (co-requisite lab required) (4.0) 3

One other Biology or Physical Science Distribution 4

Humanities Distribution 3

Fine Arts Distribution 3

Social/Behavioral Science 3

Discipline Core Requirements: 56 Credits

Complete the following:

PHYS 2215 Physics for Scientists and Engineers I Lab (1.0) 1

MATH 1210 Calculus I (5.0) 5

MATH 1220 Calculus II (5.0) 5

MATH 2210 Calculus III (3.0) 3

MATH 2270 Linear Algebra (3.0) 3

MATH 3710 Applied Regression and Time Series (4.0) 4

MATH 4710 Mathematical Statistics I (3.0) 3

MATH 4720 Mathematical Statistics II (3.0) 3

STAT 2050 Introduction to Statistical Methods (4.0) 4

STAT 2060 Introduction to Statistical Computing (1.0) 1

STAT 4100 Design of Experiment (3.0) 3

STAT 4400 Multivariate Analysis (3.0) 3

Complete three of the following: 9

STAT 4200 Survey Sampling (3.0)

STAT 4300 Stochastic Processes (3.0)

STAT 4500 Nonparametric Statistics (3.0)

STAT 4600 Statistical Process Control (3.0)

Complete 9 hours of upper level MATH or STAT courses 9

Elective Requirements: 27 Credits

Complete 9 credits of upper division electives 9
Complete 18 credits of upper or lower division electives | 18

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits with at least 40 credit hours in upper-division courses.
2. Overall grade point average of 2.0 (C) or above, a minimum GPA of 2.4 in all MATH courses listed above, with no grade lower than a "C" in all listed PHYS and MATH courses (substitutions may be granted for some elective courses).
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

**Statistics, B.S.**

**Careers**

Statistics, B.S. Careers

**Related Careers**

- Natural Sciences Managers
- Actuaries
- Statisticians
- Survey Researchers
- Mathematical Science Teachers, Postsecondary
Mission Statement

The Department of Music promotes student success through innovative programs that enhance musical creativity, hone performance expertise, and sustain high standards of academic excellence. World-class faculty provide learning opportunities essential to the professional competency of music students as they prepare for an increasingly global marketplace. The department engages diverse audiences through performances and activities representing an array of musical styles and traditions. Our objectives are to:

1. Offer the highest quality of education for students pursuing undergraduate programs in music performance, commercial music, music education, liberal arts in music, and integrated studies with a music emphasis.

2. Provide an inviting, safe, and healthy environment that promotes academic excellence and musical creativity.

3. Provide general music studies and performance opportunities to all students on campus.

4. Foster an open and inclusive environment that engages traditional and non-traditional students, celebrates diversity, and promotes understanding of a variety of musical styles and cultures.

5. Promote a supportive and stimulating environment within the department that encourages students and faculty to explore creativity and innovation at their highest professional potential.

Music Advisors:
- Office: CS 637
- Telephone: 801-863-5397
- Email: SOAADVISORS@UVU.EDU

Course Descriptions

Music........................................................................................................................................689

Degrees & Programs

Music, A.S.

Requirements

The Associate in Science in Music is a two-year program that offers foundational studies in musicianship and performance. Prepares students for continuation in a four-year degree program in music.

Total Program Credits: 63

General Education Requirements: 35 Credits

<table>
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<tr>
<th>Course</th>
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<th>Credits</th>
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<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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<tr>
<td>or ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
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<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>(3.0)</td>
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<td>MATH 1030</td>
<td>Quantitative Reasoning (recommended for Humanities or Arts majors)</td>
<td>(3.0)</td>
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<td>Introduction to Statistics (recommended for Social Science majors)</td>
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<td>MATH 1050</td>
<td>College Algebra (recommended for Business, Education, Science, and Health Professions majors)</td>
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<td>HIST 2700</td>
<td>US History to 1877</td>
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<td>POLS 1000</td>
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<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
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HLTH 1100  Personal Health and Wellness (2.0)

or  PES 1097  Fitness for Life  2

Distribution Courses:

- Biology  3
- Physical Science  3
- Additional Biology or Physical Science  3
- Humanities Distribution  3
- Fine Arts Distribution  3
- Social/Behavioral Science  3

Discipline Core Requirements:  28 Credits

Complete the following:

- MUSC 1110  Music Theory I  3
- MUSC 1120  Music Theory II  3
- MUSC 1130  Aural Skills I  1
- MUSC 1140  Aural Skills II  1
- MUSC 2110  Music Theory III  3
- MUSC 2130  Aural Skills III  1
- MUSC 2140  Aural Skills IV  1
- MUSC 3120  Form and Analysis  3

Complete 4 credits from the following:  4

- MUSC 320R  Masterworks Chorale (1.0)
- MUSC 322R  Chamber Choir (1.0)
- MUSC 327R  Men's Chorus (1.0)
- MUSC 328R  Women's Choir (1.0)
- MUSC 330R  Wind Symphony (1.0)
- MUSC 332R  Jazz Ensemble (1.0)
- MUSC 370R  Symphony Orchestra (1.0)

Individual Musicianship Studies

- MUSC 250R  Private Lessons for Music Majors (Repeated 4 times; Requires a grade B or higher) (1.0)

or

- MUSC 250R  Private Lessons for Music Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
- Six additional credit hours of music courses  6

Complete 4 credits from the following:  4

- MUSC 320R  Masterworks Chorale (1.0)
- MUSC 322R  Chamber Choir (1.0)
- MUSC 327R  Men's Chorus (1.0)
- MUSC 328R  Women's Choir (1.0)
- MUSC 330R  Wind Symphony (1.0)
- MUSC 331R  Percussion Ensemble (1.0)
- MUSC 332R  Jazz Ensemble (1.0)
- MUSC 370R  Symphony Orchestra (1.0)

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. MUSC 1150 and MUSC 250R courses require a grade B or higher. All other MUSC courses require a C grade or higher.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Music, A.S.

Careers

Careers:

UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See http://www.uvu.edu/music/why/index.html for more information.

Related Careers

- Secondary School Teachers, Except Special and Career/Technical Education
- Musicians and Singers

Music, Minor

Requirements

A Minor in Music offers introductory studies in musicianship and performance, including theory, aural skills, private instruction, and ensemble participation.

Total Program Credits: 18

Matriculation Requirements:

1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements:  18 Credits

Complete the following:

- MUSC 1110  Music Theory I  3
- MUSC 1130  Aural Skills I  1
- MUSC 160R  Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (1.0)

or

- MUSC 250R  Private Lessons for Music Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
- Six additional credit hours of music courses  6

Complete 4 credits from the following:  4

- MUSC 320R  Masterworks Chorale (1.0)
- MUSC 322R  Chamber Choir (1.0)
- MUSC 327R  Men's Chorus (1.0)
- MUSC 328R  Women's Choir (1.0)
- MUSC 330R  Wind Symphony (1.0)
- MUSC 331R  Percussion Ensemble (1.0)
- MUSC 332R  Jazz Ensemble (1.0)
- MUSC 370R  Symphony Orchestra (1.0)

Music, Minor

Careers

Careers:

UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See http://www.uvu.edu/music/why/index.html for more information.

Related Careers

- Secondary School Teachers, Except Special and Career/Technical Education
- Musicians and Singers
Music

Commercial Music, B.M.

Requirements

The Bachelor of Music in Commercial Music prepares students for professional work in the music media industry. Students may select from two tracks, one in media composition and the second in music technology and production.

Total Program Credits: 120

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL10101010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
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</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (recommended for Humanities or Arts majors)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (recommended for Social science majors)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (recommended for Business, Education, Science, and Health Professions majors)</td>
<td>4.0</td>
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Choose one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3.0</td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td>3.0</td>
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<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
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</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>3.0</td>
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</table>

Complete the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2.0</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
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Distribution Courses:

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<thead>
<tr>
<th>Category</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>Biology</td>
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<td></td>
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<tr>
<td>Physical Science</td>
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<tr>
<td>Additional Biology or Physical Science</td>
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<td></td>
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<tr>
<td>Humanities Distribution</td>
<td></td>
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</tr>
<tr>
<td>MUSC 1030</td>
<td>American Popular Music (Fine Arts Distribution)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
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<td></td>
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</table>

Discipline Core Requirements: 85 Credits

Musicianship Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1110</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 1120</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 1130</td>
<td>Aural Skills I</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1140</td>
<td>Aural Skills II</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1150</td>
<td>Group Piano I</td>
<td>2</td>
</tr>
<tr>
<td>and MUSC 1160</td>
<td>Group Piano II</td>
<td>2</td>
</tr>
<tr>
<td>or Departmental Keyboard Proficiency exam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSC 2110</td>
<td>Music Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 2130</td>
<td>Aural Skills III</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 2140</td>
<td>Aural Skills IV</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 2350</td>
<td>Fundamentals of Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 3120</td>
<td>Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 3450</td>
<td>Music History and Literature I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 3451</td>
<td>Music History and Literature II</td>
<td>3</td>
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</tbody>
</table>

Individual Musicianship Studies:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 250R</td>
<td>Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review)</td>
<td>1.0</td>
</tr>
<tr>
<td>MUSC 251R</td>
<td>Performance Class (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review)</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Large Ensembles:

Complete 4 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 320R</td>
<td>Masterworks Chorale (1.0)</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 322R</td>
<td>Chamber Choir (1.0)</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 329R</td>
<td>Women's Choir (1.0)</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 327R</td>
<td>Men's Chorus (1.0)</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 330R</td>
<td>Wind Symphony (1.0)</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 332R</td>
<td>Jazz Ensemble (1.0)</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 370R</td>
<td>Symphony Orchestra (1.0)</td>
<td>1</td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1400</td>
<td>Music Technology I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 1402</td>
<td>Music Technology II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 1410</td>
<td>Introduction to Careers In Contemporary Music Media</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 2400</td>
<td>Music Recording Applications I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 2420</td>
<td>Music Recording Applications II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 3015</td>
<td>Jazz and Rock Theory</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 3025</td>
<td>Songwriting I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 3412</td>
<td>Music Career Development</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 379R</td>
<td>Studio Recording Workshop</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 4130</td>
<td>Scoring and Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 4600</td>
<td>Jazz Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 470R</td>
<td>Studio Arranging and Producing (Repeated 2 times)</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC 492R</td>
<td>Advanced Topics in Music (1.0)</td>
<td>2</td>
</tr>
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</table>

Choose from one of the following tracks: 15

Media Composition:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 3026</td>
<td>Songwriting II</td>
<td>2.0</td>
</tr>
<tr>
<td>MUSC 410R</td>
<td>Music Composition</td>
<td>2.0</td>
</tr>
<tr>
<td>MUSC 420R</td>
<td>Film Scoring</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Nine credits of MUSC or DGM electives

Music Technology and Production:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGM 2130</td>
<td>Digital Audio Essentials</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 2440</td>
<td>Sound for Film and Television</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 3410</td>
<td>Audio Engineering for the Studio</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Six credits of upper division MUSC or DGM electives. Six credits must be upper division.

Graduation Requirements:
Music

1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. MUSC 1150, 1160 and 250R courses require a grade B or higher. All other MUSC and DGM courses require a C grade or higher.
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements, including a sophomore review.
5. Successful completion of at least one Global/Intercultural course.

Commercial Music, B.M.

Careers:

UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See http://www.uvu.edu/music/why/index.html for more information.

Related Careers

• Art, Drama, and Music Teachers, Postsecondary
• Music Directors and Composers
• Sound Engineering Technicians

Music Education, B.S.

Requirements

The Bachelor of Science in Music Education degree provides students with the competencies essential for a professional career in music secondary education.

Total Program Credits: 126

Matriculation Requirements:

Students will apply for formal admission to the Secondary Ed program in the semester prior to the beginning of their junior year. Admission criteria include:

1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass LiveScan Criminal Background Check.

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing–Humanities/Social Sciences</td>
<td>3</td>
</tr>
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</table>

Choose one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (recommended for Social science majors) (3.0)</td>
<td>3</td>
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</table>

Discipline Core Requirements: 91 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1050</td>
<td>College Algebra(recommended for Business, Education, Science, and Health Professions majors) (4.0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
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Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
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<tr>
<td>or</td>
<td>PES 1097 Personal Fitness for Life</td>
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</tbody>
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Distribution Courses:

<table>
<thead>
<tr>
<th>Credit</th>
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<tbody>
<tr>
<td>Biology</td>
</tr>
<tr>
<td>Physical Science</td>
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<tr>
<td>Additional Biology or Physical Science</td>
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<tr>
<td>Humanities Distribution</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
</tr>
</tbody>
</table>

Basic Music Education Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1800</td>
<td>Introduction to Music Education</td>
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Complete 5 credits from the following (see advisor):

<table>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSC 3001</td>
<td>Diction and Literature I (1.0)</td>
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</tr>
<tr>
<td>MUSC 3002</td>
<td>Diction and Literature II (1.0)</td>
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</tr>
<tr>
<td>MUSC 3620</td>
<td>Percussion Practicum I (1.0)</td>
<td></td>
</tr>
<tr>
<td>MUSC 3621</td>
<td>Percussion Practicum II (1.0)</td>
<td></td>
</tr>
<tr>
<td>MUSC 3630</td>
<td>Vocal Practicum (1.0)</td>
<td></td>
</tr>
<tr>
<td>MUSC 3649</td>
<td>String Practicum I (1.0)</td>
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<tr>
<td>MUSC 3650</td>
<td>String Practicum II (1.0)</td>
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</tr>
<tr>
<td>MUSC 3659</td>
<td>Woodwind Practicum I (1.0)</td>
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Music

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MUSC 3660</td>
<td>Woodwind Practicum II (1.0)</td>
</tr>
<tr>
<td>MUSC 3679</td>
<td>Brass Practicum I (1.0)</td>
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<tr>
<td>MUSC 3680</td>
<td>Brass Practicum II (1.0)</td>
</tr>
<tr>
<td>MUSC 4240</td>
<td>Vocal Pedagogy (2.0)</td>
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</tbody>
</table>

**Performance Skills Development Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 250R</td>
<td>Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)</td>
</tr>
<tr>
<td>MUSC 251R</td>
<td>Performance Class (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)</td>
</tr>
<tr>
<td>MUSC 450R</td>
<td>Private Lessons for Music Majors (Repeated 2 times on major instrument or voice) (Includes completion of 30-minute senior recital) (1.0)</td>
</tr>
<tr>
<td>MUSC 451R</td>
<td>Performance Class (Repeated 2 times) (1.0)</td>
</tr>
</tbody>
</table>

Student must pass the Departmental Keyboard Proficiency Examination or complete MUSC 1150 and MUSC 1160.

Complete 6 credits from the following:

- MUSC 320R Masterworks Chorale (1.0)
- MUSC 322R Chamber Choir (1.0)
- MUSC 327R Men's Chorus (1.0)
- MUSC 328R Women's Choir (1.0)
- MUSC 330R Wind Symphony (1.0)
- MUSC 332R Jazz Ensemble (1.0)
- MUSC 370R Symphony Orchestra (1.0)

**Secondary Education Courses**

- EDSC 3000 Educational Psychology (3)
- EDSC 3050 Foundations of American Education (2)
- EDSC 3250 Instructional Media (2)
- EDSP 3400 Exceptional Students (2)
- EDSC 4200 Classroom Management I (2)
- EDSC 4250 Classroom Management II (2)
- EDSC 4440 Content Area Literacies (3)
- EDSC 445G Multicultural Instruction ESL (3)
- EDSC 4550 Secondary Curriculum Instruction and Assessment (3)
- EDSC 4850 Student Teaching--Secondary (10)

Complete one of the following areas:

- Choral - String (6 credits)
  - MUSC 4150 Advanced Choral Conducting (2.0)
  - MUSC 4220 Choral Literature and Methods (2.0)
  - MUSC 4370 Orchestra Literature and Methods (2.0)

- Choral - Winds/Percussion (7 credits)
  - MUSC 4150 Advanced Choral Conducting (2.0)
  - MUSC 4220 Choral Literature and Methods (2.0)
  - MUSC 4340 Marching Band Techniques (1.0)
  - MUSC 4360 Wind Band Literature and Methods (2.0)

- Strings - Choral (6 credits)
  - MUSC 3150 Advanced Instrumental Conducting (2.0)

- MUSC 4370 Orchestra Literature and Methods (2.0)
- MUSC 4220 Choral Literature and Methods (2.0)

**Graduation Requirements:**

1. Completion of a minimum of 126 semester credits.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses. MUSC 1150, MUSC 1160, MUSC 250R and MUSC 450R courses require a grade B or higher.
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements, including a sophomore review and 30-minute senior recital.
5. Successful completion of at least one Global/Intercultural course.

**Music Education, B.S. Careers**

**Careers:**

UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See [http://www.uvu.edu/music/why/index.html](http://www.uvu.edu/music/why/index.html) for more information.

**Related Careers**

- Education Teachers, Postsecondary
- Art, Drama, and Music Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

**Music, B.A. Requirements**

The Bachelor of Arts/Science in Music is a liberal arts degree with a significant component of electives designed for students who desire a broad base of knowledge. The Bachelor of Arts in Music includes foreign language requirements.

**Total Program Credits: 120**
Individual Musicianship Studies

Musicianship Courses

Discipline Core Requirements: 56 Credits

Musicianship Courses

MUSC 1110 Music Theory I 3
MUSC 1120 Music Theory II 3
MUSC 1130 Aural Skills I 1
MUSC 1140 Aural Skills II 1
MUSC 2110 Music Theory III 3
MUSC 2130 Aural Skills III 1
MUSC 2140 Aural Skills IV 1
MUSC 3120 Form and Analysis 3
MUSC 3450 Music History and Literature I 3
MUSC 3451 Music History and Literature II 3
MUSC 4120 Twentieth-Century Theory 3

Complete 3 credits of upper-division MUSC courses not already required for the degree.

Individual Musicianship Studies

MUSC 250R Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0) 4
MUSC 450R Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (1.0) 4
MUSC 451R Performance Class (Repeated 4 times on major instrument or voice) (1.0) 4

Complete the following:

and

MUSC 1150 Group Piano I 2
MUSC 1160 Group Piano II 2

or

Departmental Keyboard Proficiency exam (an additional 4 credits of electives may be required)

Ensembles

Complete 8 credits from the following:

MUSC 320R Masterworks Chorale (1.0)
MUSC 329R Chamber Choir (1.0)
MUSC 327R Men's Chorus (1.0)
MUSC 329R Women's Choir (1.0)
MUSC 330R Wind Symphony (1.0)
MUSC 332R Jazz Ensemble (1.0)
MUSC 379R Symphony Orchestra (1.0)

Elective Requirements: 28 Credits

One Foreign Language 12

Complete any courses 1000 level or higher (may not include MUSC courses) (at least 9 credits must be upper-division, see graduation requirements) 16

Graduation Requirements:

1. Completion of a minimum of 120 semester credits. 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. MUSC 1150, MUSC 1160, MUSC 250R and MUSC 450R courses require a grade B or higher. All other MUSC courses require a C grade or higher.
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements, including a sophomore review.
5. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Successful completion of at least one Global/Intercultural course.

Music, B.A.

Careers

Careers:

UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See http://www.uvu.edu/music/why/index.html for more information.

Related Careers

• Secondary School Teachers, Except Special and Career/Technical Education
Music
• Musicians and Singers

Music, B.S.

Requirements
The Bachelor of Arts/Science in Music is a liberal arts degree with a significant component of electives designed for students who desire a broad base of knowledge. The Bachelor of Arts in Music includes foreign language requirements.

Total Program Credits: 120

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing—Humanities/Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (recommended for Social science majors) (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)</td>
<td></td>
</tr>
</tbody>
</table>

Choose one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
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</tbody>
</table>

and

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 56 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1110</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 1120</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 1130</td>
<td>Aural Skills I</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1140</td>
<td>Aural Skills II</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 2110</td>
<td>Music Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 2130</td>
<td>Aural Skills III</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 2140</td>
<td>Aural Skills IV</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 3120</td>
<td>Form and Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Individual Musicianship Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 250R</td>
<td>Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 251R</td>
<td>Performance Class (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 450R</td>
<td>Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (1.0)</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 451R</td>
<td>Performance Class (Repeated 4 times on major instrument or voice) (1.0)</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1150</td>
<td>Group Piano I</td>
<td>2</td>
</tr>
</tbody>
</table>

and

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1160</td>
<td>Group Piano II</td>
<td>2</td>
</tr>
</tbody>
</table>

or

Departmental Keyboard Proficiency exam (an additional 4 credits of electives may be required)

Ensembles

Complete 8 credits from the following: 8

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 320R</td>
<td>Masterworks Chorale (1.0)</td>
<td></td>
</tr>
<tr>
<td>MUSC 322R</td>
<td>Chamber Choir (1.0)</td>
<td></td>
</tr>
<tr>
<td>MUSC 327R</td>
<td>Men's Chorus (1.0)</td>
<td></td>
</tr>
<tr>
<td>MUSC 328R</td>
<td>Women's Choir (1.0)</td>
<td></td>
</tr>
<tr>
<td>MUSC 330R</td>
<td>Wind Symphony (1.0)</td>
<td></td>
</tr>
<tr>
<td>MUSC 332R</td>
<td>Jazz Ensemble (1.0)</td>
<td></td>
</tr>
<tr>
<td>MUSC 370R</td>
<td>Symphony Orchestra (1.0)</td>
<td></td>
</tr>
</tbody>
</table>

Elective Requirements: 29 Credits

Complete any courses 1000 level or higher (may not include MUSC courses) (at least 9 credits must be upper-division, see graduation requirements)

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. MUSC 1150, MUSC 1160, MUSC 250R and MUSC 450R courses require a grade B or higher. All other MUSC courses require a C grade or higher.
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements, including a sophomore review.
5. Successful completion of at least one Global/Intercultural course.

Music, B.S.

Careers

Careers:
UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and
entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See [http://www.uvu.edu/music/why/index.html](http://www.uvu.edu/music/why/index.html) for more information.

### Related Careers
- Secondary School Teachers, Except Special and Career/Technical Education
- Musicians and Singers

### Performance, BM

**Requirements**

The Bachelor of Music in Performance degree prepares students for performance-related work and studio teaching. In addition to standard courses that focus on performance skills, it includes courses relevant to the music industry such as entrepreneurship, music technology, and studio recording.

**Total Program Credits: 121**

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following: 3

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Choose one of the following: 3

- POLS 1000 American Heritage (3.0)
- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values (3.0)
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life (2.0)

**Distribution Courses:**

- Biology (3.0)
- Physical Science (3.0)
- Additional Biology or Physical Science (3.0)
- Humanities Distribution (3.0)
- Fine Arts Distribution (3.0)
- Social/Behavioral Science (3.0)

**Discipline Core Requirements:**

| MUSC 1110 | Music Theory I | 3 |
| MUSC 1120 | Music Theory II | 3 |
| MUSC 1130 | Aural Skills I | 1 |

**Music Industry and Technology**

| MUSC 1400 | Music Technology I | 2 |
| MUSC 3412 | Music Career Development | 3 |

Choose at least four credits from the following: 4

- MUSC 1402 | Music Technology II (2.0) |
- MUSC 2400 | Music Recording Applications I (2.0) |
- MUSC 2420 | Music Recording Applications II (2.0) |
- MUSC 3015 | Jazz and Rock Theory (3.0) |
- MUSC 3025 | Songwriting I (2.0) |
- MUSC 379R | Studio Recording Workshop (1.0) |
- MUSC 4600 | Jazz Improvisation (2.0) |
- MUSC 470R | Studio Arranging and Producing (3.0) |

**Individual Musicianship Studies:**

| MUSC 250R | Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (includes completion of sophomore review) | 4 |
| MUSC 251R | Performance Class (Repeated 4 times on major instrument or voice) (includes completion of sophomore review) | 4 |
| MUSC 455R | Private Lessons for Music Performance Majors (Repeated 4 times on major instrument or voice) | 8 |
| MUSC 451R | Performance Class (Repeated 4 times on major instrument or voice) | 4 |
| MUSC 3800 | Junior Recital | 1 |
| MUSC 4800 | Senior Recital | 1 |

**Large Ensembles:**

Complete 8 credits from the following: 8

- MUSC 320R | Masterworks Chorale (1.0) |
- MUSC 322R | Chamber Choir (1.0) |
- MUSC 327R | Men's Chorus (1.0) |
- MUSC 328R | Women's Choir (1.0) |
- MUSC 330R | Wind Symphony (1.0) |
- MUSC 332R | Jazz Ensemble (1.0) |
- MUSC 370R | Symphony Orchestra (1.0) |

Choose from one of the following performance areas: 16
Music

Instrumental Performance/Piano Performance:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 306R</td>
<td>Advanced Keyboard Skills (For Piano Performance area only) (Repeated 4 times) (1.0)</td>
</tr>
<tr>
<td>MUSC 3415</td>
<td>Instrumental Pedagogy and Literature I (2.0)</td>
</tr>
<tr>
<td>MUSC 3416</td>
<td>Instrumental Pedagogy and Literature II (2.0)</td>
</tr>
<tr>
<td>MUSC 373R</td>
<td>Small Ensembles (Repeated 4 times) (1.0)</td>
</tr>
</tbody>
</table>

Four credits of music electives for Piano Performance area and eight credits of music elective for Instrumental Performance area.

Vocal Performance:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 3001</td>
<td>Diction and Literature I (1.0)</td>
</tr>
<tr>
<td>MUSC 3002</td>
<td>Diction and Literature II (1.0)</td>
</tr>
<tr>
<td>MUSC 423R</td>
<td>Opera Workshop (Repeated 4 times) (1.0)</td>
</tr>
<tr>
<td>MUSC 4240</td>
<td>Vocal Pedagogy (2.0)</td>
</tr>
</tbody>
</table>

Eight credits of French and German language courses

Graduation Requirements:

1. Completion of a minimum of 121 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. MUSC 1150, 1160, 250R and 455R courses require a grade B or higher. All other MUSC courses require a C grade or higher.
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements, including a sophomore review.
5. Successful completion of at least one Global/Intercultural course.

Performance, BM

Careers

UUV's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See http://www.uvu.edu/music/why/index.html for more information.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Music Directors and Composers
- Musicians and Singers
Nursing

Mission Statement

Our mission is to provide quality nursing education, helping students to cultivate requisite knowledge, sound clinical judgment, and a foundation for lifelong learning, as they progress toward becoming competent, caring nurses in a complex and changing health care environment.

Values

1. We are committed to the learning and success of our students. Student success is a measure of our success as nurse educators.
2. We believe that caring nurses promote the health of body, mind, and spirit in individuals, families and communities.
3. We are committed to serving our local, state and global communities. We promote and maintain positive relationships with our community partners. We promote health by educating nurses committed to work and service in their community.
4. We are dedicated to student-centered teaching. We value evidence-based teaching strategies and active, collaborative, experiential learning. Teaching and learning are a partnership in which students are ultimately responsible for their learning, and accountable for their nursing practice.
5. We encourage the pursuit of excellence through life-long learning. We expect our graduates to utilize sound clinical judgment and evidence-based nursing actions.
6. We believe honor and integrity are essential to learning and for nursing practice, and we promote professional standards of practice and behavior.
7. We value collegial collaboration as well as the rights and responsibilities of academic freedom. We encourage thoughtful and civil discourse, recognizing that free exchange of informed ideas enhances individual and community decision-making.
8. We appreciate the diversity and the interconnectedness in our faculty, students, and in the communities in which we practice. We celebrate diversity within our community.

Nursing

Administrative Support:

- Office: HP 203
- Telephone: 801-863-8211
- Email: DianeEvans@uvu.edu

Pre-Nursing Advisors:

- Denise Fullmer
- Office: LC 404
- Telephone: 801-863-6484

- Email: fullmede@uvu.edu
- Office: LC 404
- Telephone:
- Email: Students interested in applying to the nursing program please contact the Pre-Nursing advisors.

- Nursing Advisor: Kathy Hafen
- Office: HP 203a
- Telephone: 801-863-6317
- Email: chafenka@uvu.edu
- Students who are currently in the nursing program contact the nursing advisor.

Program Coordinators:

- ASN: Joohyun Chung
- Office: HP 203r
- Telephone: 801-863-6474
- Email: Joohyun.Chung@uvu.edu

- BSN: Joohyun Chung
- Office: HP 203q
- Telephone: 801-863-6474
- Email: Joohyun.Chung@uvu.edu

- MSN: Gaya Carlton
- Office: HP 203t
- Telephone: 801-863-8195
- Email: Gaya.Carlton@uvu.edu

Accreditation

The Associate (ASN) and Baccalaureate (BSN completion) programs are accredited by the Accreditation Commission for Education in Nursing (ACEN).

The Master of Science in Nursing (MSN) education program is accredited by the Accreditation Commission for Education in Nursing (ACEN).

The ACEN can be reached at:

- Mailing Address:
  Accreditation Commission for Education in Nursing
  3343 Peachtree Road NE, Suite 850
  Atlanta, GA 30326
  - Telephone: 404-975-5000
  - Fax: 404-975-5020
  - Email: info@acenursing.org
  - Web Address: www.acenursing.org

Nursing Programs

Undergraduate nursing education includes Associate in Science in Nursing (ASN) with Bachelor of Science in Nursing (BSN) completion program. Students seeking initial licensure as a registered nurse must apply for entry into the ASN program. Students accepted to the ASN program will matriculate into the BSN completion program, without the need for reapplication, upon successful completion of the ASN. In order to remain in the BSN completion program, students must obtain RN licensure and graduate with the ASN per department policy. Students seeking initial licensure in nursing should contact a pre-nursing advisor for additional program information and application processes. Licensed nurses should contact the Department of Nursing advisor for information regarding the BSN completion and Master of Science in Nursing programs.

The ASN program prepares the graduate to function individually as a member of the healthcare team in structured healthcare settings in which clients have common health problems. The BSN completion program prepares graduates to design, coordinate and manage healthcare, to assume leadership roles, to enter graduate education in nursing, and to develop leadership and management skills. The Master of Science in Nursing program prepares graduates as educators in both academic and clinical areas.
Information to consider, regarding the demands and performance requirements of nursing as a career, is available on our website at www.uvu.edu/nursing.

Admission Requirements

Admission to a nursing program is required in order to enroll in any nursing course. Admission to any of the nursing programs is by competitive application and is contingent upon satisfactory results of both a federal criminal background check and a drug screen.

The Department of Nursing has sole discretion to deny acceptance based upon the information contained in either of these two reports. For students where English is a second language, admission is also contingent upon current TOEFL scores, which must be at or above the required minimum levels set by the Department of Nursing.

Please contact the appropriate advisors for information and current admission requirements. Also see our website at www.uvu.edu/nursing.

DEPARTMENT CHAIR
MAUGHAN, Dale Associate Professor

FACULTY
BAGLEY, Katie Assistant Professor
BENNETT, Sean Assistant Professor
BRADSHAW, Laurel Assistant Professor
CARLTON, Gaya Professor
CHEN, Hsiu-Chin Professor
CHUNG, Joohyun Associate Professor
CRAVEN, Marianne Professor
ELLIOIT, Betty Ann Assistant Professor
HUNTER, Marie J. Associate Professor
JENSEN, Francine B. Assistant Professor
KELLER, David C. Associate Professor
MAUGHAN, Dale Associate Professor
MCADAMS-JONES, Dianne Associate Professor
MEASOM, Gary Professor
MOORE, Katherine D. Associate Professor
NELSON, Troy Associate Professor
NICHOLS, Nyree-Dawn Assistant Professor
SLADE, Jacquie Associate Professor
SWENSON, Allison Assistant Professor
WAYMAN, Mina Associate Professor

Course Descriptions

Nursing ................................................................. 694

Degrees & Programs

Nursing, ASN

Requirements

The UVU Nursing Program is a student-centered engaged learning experience where faculty facilitates learning nursing care through simulation and patient care. The Associate in Science in Nursing w/BSN Completion (ASN) program prepares the graduate to function individually as a member of the healthcare team in structured healthcare settings in which clients have common health problems. Acceptance into the ASN program is by a competitive, point-based application process. Prerequisite courses must be completed before applying to the program. For more information on applying to the ASN program see our website at www.uvu.edu/nursing or contact the Pre-Nursing advisors in LC 404 at 863-6484. After completing the 4 semesters of the ASN program, students would be eligible to graduate with an ASN and apply to take the NCLEX-RN exam. Graduates of the ASN program would be eligible to remain in the program, and seamlessly transition to the Bachelor of Science in Nursing (BSN) portion of the program. BSN completion takes an additional 2 full time semesters if students have also completed all the GE requirements, ZOOL 4400, and MATH 1040 or MATH 2040.

Total Program Credits: 70

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements:</td>
</tr>
<tr>
<td>27 Credits</td>
</tr>
<tr>
<td>BIOL 1010 General Biology 3</td>
</tr>
<tr>
<td>CHEM 1110 Elementary Chemistry for the Health Sciences 4</td>
</tr>
<tr>
<td>ENGL 1010 Introduction to Writing 3</td>
</tr>
<tr>
<td>MATH 1050 College Algebra 4</td>
</tr>
<tr>
<td>NUTR 1020 Foundations of Human Nutrition 3</td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values 3</td>
</tr>
<tr>
<td>PSY 1100 Human Development Life Span 3</td>
</tr>
<tr>
<td>ZOOL 2320 Human Anatomy 3</td>
</tr>
<tr>
<td>ZOOL 2325 Human Anatomy Laboratory 1</td>
</tr>
<tr>
<td>Discipline Core Requirements:</td>
</tr>
<tr>
<td>43 Credits</td>
</tr>
<tr>
<td>Complete the following with a minimum B- or higher:</td>
</tr>
<tr>
<td>NURS 2300 Nursing Health Assessment 2</td>
</tr>
<tr>
<td>NURS 2305 Nursing Health Assessment Laboratory 1</td>
</tr>
<tr>
<td>NURS 2310 Nursing Pharmacology 3</td>
</tr>
<tr>
<td>NURS 2320 Nursing Interventions 2</td>
</tr>
<tr>
<td>NURS 2325 Nursing Interventions Laboratory 2</td>
</tr>
<tr>
<td>NURS 2410 Nursing Care of Adults with Common Disorders 2</td>
</tr>
<tr>
<td>NURS 2415 Nursing Care of Adults with Common Disorders Clinical 2</td>
</tr>
<tr>
<td>NURS 2420 Nursing Care of the Aging Population 2</td>
</tr>
<tr>
<td>NURS 2430 Mental Health Nursing 2</td>
</tr>
<tr>
<td>NURS 2435 Mental Health Nursing Clinical 1</td>
</tr>
<tr>
<td>NURS 3300 Health Promotion and Health Teaching in Nursing 2</td>
</tr>
<tr>
<td>MICR 2060 Microbiology for Health Professions 3</td>
</tr>
<tr>
<td>MICR 2065 Microbiology for Health Professions Laboratory 1</td>
</tr>
<tr>
<td>NURS 3310 Nursing Care of Child Bearing Families 2</td>
</tr>
<tr>
<td>NURS 3315 Nursing Care of Child Bearing Families Clinical 1</td>
</tr>
<tr>
<td>NURS 3320 Nursing Care of Child Rearing Families 2</td>
</tr>
<tr>
<td>NURS 3325 Nursing Care of Child Rearing Families Clinical 1</td>
</tr>
<tr>
<td>NURS 3330 Nursing Care of Persons with Complex Disorders 2</td>
</tr>
<tr>
<td>NURS 3335 Nursing Care of Persons with Complex Disorders Clinical 2</td>
</tr>
<tr>
<td>NURS 3400 Patient Care Coordination and Management 2</td>
</tr>
<tr>
<td>NURS 3405 Patient Care Coordination and Management Preceptorship 2</td>
</tr>
<tr>
<td>ZOOL 2420 Human Physiology 3</td>
</tr>
<tr>
<td>ZOOL 2425 Human Physiology Laboratory 1</td>
</tr>
<tr>
<td>ZOOL 4400 Pathophysiology (4.0)</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 70 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of specified departmental requirements

Nursing, ASN

Careers

A nurse is a member of the healthcare team, focused on caring for individuals, families, and communities. Nurses work to ensure that patients attain, maintain, or recover optimal health and functioning. Nurses assess, plan, implement, and evaluate care.

UVU nursing graduates work in a wide variety of settings with varied job opportunities including:

- Hospital: staff nurses, administrators, educators, case managers
- Long-term care centers: staff nurses, administrators, educators
- Hospice and home health care
- Schools, colleges/universities
- Health centers, clinics, and surgical centers
- Armed services
- Public health
- Diabetes educators
- Inpatient and outpatient psychiatric care

Related Careers

- Nursing Instructors and Teachers, Postsecondary
- Registered Nurses

Nursing, B.S.

Requirements

A bachelor of science in nursing degree prepares students to practice across all types of health care settings. A BSN provides the greatest opportunity for advancement in the nursing field. A BSN is also required for entry into most graduate nursing programs including nurse practitioner, certified nurse anesthetist, nursing educator, or nurse researcher. Students interested in the BSN would first need to complete the ASN program. Acceptance into the ASN program is by a competitive, point-based application process. Prerequisite courses must be completed before applying to the program. For more information on applying to the ASN program see ou website at www.uvu.edu/nursing or contact the Pre-Nursing advisors in LC 404 at 863-6484. After completing the 4 semesters of the ASN program, students would be eligible to graduate with an RN see the RN to BSN program at www.uvu.edu/nursing.

Total Program Credits: 120

Matriculation Requirements:

1. Acceptance into Nursing program (see Advisor)

General Education Requirements: 36 Credits

Distribution Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1010</td>
<td>General Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1110</td>
<td>Elementary Chemistry for the Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PSY 1100</td>
<td>Human Development Life Span</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2320</td>
<td>Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>and ZOOL 2325</td>
<td>Human Anatomy Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 84 Credits

Complete the following with a minimum B- or higher:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 2300</td>
<td>Nursing Health Assessment</td>
<td>2</td>
</tr>
<tr>
<td>NURS 2305</td>
<td>Nursing Health Assessment Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 2310</td>
<td>Nursing Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 2320</td>
<td>Nursing Interventions</td>
<td>2</td>
</tr>
<tr>
<td>NURS 2325</td>
<td>Nursing Interventions Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>NURS 2410</td>
<td>Nursing Care of Adults with Common Disorders</td>
<td>2</td>
</tr>
<tr>
<td>NURS 2415</td>
<td>Nursing Care of Adults with Common Disorders Clinical</td>
<td>2</td>
</tr>
<tr>
<td>NURS 2420</td>
<td>Nursing Care of the Aging Population</td>
<td>2</td>
</tr>
<tr>
<td>NURS 2430</td>
<td>Mental Health Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NURS 2435</td>
<td>Mental Health Nursing Clinical</td>
<td>1</td>
</tr>
<tr>
<td>NURS 3300</td>
<td>Health Promotion and Health Teaching in Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NURS 3310</td>
<td>Nursing Care of Child Bearing Families</td>
<td>2</td>
</tr>
<tr>
<td>NURS 3315</td>
<td>Nursing Care of Child Bearing Families Clinical</td>
<td>1</td>
</tr>
<tr>
<td>NURS 3320</td>
<td>Nursing Care of Child Rearing Families</td>
<td>2</td>
</tr>
<tr>
<td>NURS 3325</td>
<td>Nursing Care of Child Rearing Families Clinical</td>
<td>1</td>
</tr>
<tr>
<td>NURS 3330</td>
<td>Nursing Care of Persons with Complex Disorders</td>
<td>2</td>
</tr>
<tr>
<td>NURS 3335</td>
<td>Nursing Care of Persons with Complex Disorders Clinical</td>
<td>2</td>
</tr>
<tr>
<td>NURS 3400</td>
<td>Patient Care Coordination and Management</td>
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<tr>
<td>NURS 3405</td>
<td>Patient Care Coordination and Management Preceptorship</td>
<td>2</td>
</tr>
<tr>
<td>NURS 4320</td>
<td>Nursing in the Community</td>
<td>2</td>
</tr>
<tr>
<td>NURS 4325</td>
<td>Nursing in the Community Clinical</td>
<td>2</td>
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</table>
Nursing

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 441G</td>
<td>Nursing in Global Perspective</td>
<td>3</td>
</tr>
<tr>
<td>NURS 4500</td>
<td>Nursing Leadership</td>
<td>3</td>
</tr>
<tr>
<td>NURS 4510</td>
<td>Clinical Assessment and Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>NURS 4520</td>
<td>Navigating Health Systems</td>
<td>3</td>
</tr>
<tr>
<td>NURS 4540</td>
<td>Research and Theory in Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NURS 4550</td>
<td>Quality and Safety in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>University-level statistics course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MICR 2060</td>
<td>Microbiology for Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>MICR 2065</td>
<td>Microbiology for Health Professions Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NUTR 1020</td>
<td>Foundations of Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2420</td>
<td>Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2425</td>
<td>Human Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ZOOL 4400</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
</tbody>
</table>

And a minimum of 8 credits of adviser approved electives, a minimum of 2 from any upper-division nursing courses, not otherwise required for the Bachelor of Science degree. 8

RNs returning to complete BS in Nursing should contact the nursing advisor for requirements.

Graduation Requirements:
1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Completion of GE and specified departmental requirements.
4. Residency hours—minimum of 30 credit hours through course attendance at UVU.
5. Successful completion of at least one Global/Intercultural course.

Nursing, B.S.

Careers

Careers:
A BSN degree prepares students to practice across all types of health care settings. A BSN provides the greatest opportunity for advancement in the nursing field. A BSN is also required for entry into most graduate nursing programs including nurse practitioner, certified nurse anesthetist, nursing educator, or nurse researcher.

Applicants who already have an RN and would like to receive a BSN please see the information for the RN-BSN program on our website or contact the nursing advisor at 801-863-6317.

Related Careers
- Nursing Instructors and Teachers, Postsecondary
- Registered Nurses
Nursing Graduate Studies

College of Science & Health

- Dean: Daniel Fairbanks
- Office: SB 241
- Telephone: 801-883-6441
- Email: daniel.fairbanks@uvu.edu

Master of Science in Nursing

- Department Chair: Dale Maughan
- Office: HP 209
- Telephone: 801-883-7411
- Email: dale.maughan@uvu.edu
- Coordinator: Gaya Carlton
- Office: HP 203a
- Telephone: 801-883-6195
- Email: gaya.carlton@uvu.edu
- Advisor: Kathy Hafen
- Office: HP 203a
- Telephone: 801-883-6317
- Email: kathy.hafen@uvu.edu

Accreditation

The Master of Science in Nursing program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, GA, 30326.

Program Description

The Master of Science in Nursing program prepares post-baccalaureate nursing students for advanced practice roles as nurse educators in academic settings and/or as clinical nurse educators in healthcare institutions. The program includes core courses essential to master-level nursing programs as well as courses designed to prepare nurses to assume roles as academic nurse educators and/or as clinical nurse educators. Program content focuses on: theoretical foundations of nursing education and leadership; tests and measurements of learning outcomes; curriculum development, implementation and evaluation; and academic and clinical teaching. Program courses provide skills and strategies for facilitation of learning in a variety of settings.

Admission Requirements

Acceptance into the MSN program will be based on information from the following:

- Application for admission to the MSN program.
- Baccalaureate degree in nursing from a program accredited by the Accreditation Commission for Education in Nursing (ACEN) or the Commission on Collegiate Nursing Education (CCNE).
- Current licensure as a registered nurse in the applicant’s state of residency or eligibility for registered nurse licensure with completion of licensure process within 90 days of coursework commencement.
- Completion of an undergraduate course in statistics.
- Overall undergraduate GPA of 3.2 or higher or GPA of 3.2 or higher in the last 60 semester hours of undergraduate coursework.
- Three professional letters of recommendation from references who can assess applicant potential for success.

Acceptance into the MSN program will be based on information from the following:

- Application for admission to the MSN program.
- Baccalaureate degree in nursing from a program accredited by the Accreditation Commission for Education in Nursing (ACEN) or the Commission on Collegiate Nursing Education (CCNE).
- Current licensure as a registered nurse in the applicant’s state of residency or eligibility for registered nurse licensure with completion of licensure process within 90 days of coursework commencement.
- Completion of an undergraduate course in statistics.
- Overall undergraduate GPA of 3.2 or higher or GPA of 3.2 or higher in the last 60 semester hours of undergraduate coursework.
- Three professional letters of recommendation from references who can assess applicant potential for success.

For each credit hour over 12, $263 per credit hour will be assessed for residents and $802 per credit hour for non-residents.

FACULTY

- BRADSHAW, Laurel Assistant Professor
- CARLTON, Gaya Professor
- CHEN, Hsiu-Chin Professor
- CHUNG, Joohyun Associate Professor
- CRAVEN, Marianne Professor
- MAUGHAN, Dale Associate Professor
- MCADAMS-JONES, Dianne Associate Professor
- MEASOM, Gary Professor

Course Descriptions

Nursing.................................................................694

Degrees & Programs

Nursing, M.S.N

Requirements

The Master of Science in Nursing program at Utah Valley University prepares post-baccalaureate nursing students for advanced practice roles as nurse educators in academic settings and/or as clinical nurse educators in healthcare institutions. Content focuses on theoretical foundations of nursing education and leadership; tests and measurements of outcomes; curriculum development, implementation and evaluation; and academic and clinical teaching. Courses provide skills and strategies needed for facilitation of learning in a variety of settings.

Upon completion of the MSN program, the student should be able to:

1. Function as a leader in the professional healthcare team.

<table>
<thead>
<tr>
<th>2015-16 Graduate--Tuition and General Fee Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDENT</td>
</tr>
<tr>
<td>Credit Hours</td>
</tr>
<tr>
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</tr>
<tr>
<td>0.5</td>
</tr>
<tr>
<td>1.0</td>
</tr>
</tbody>
</table>
Nursing Graduate Studies

2. Function as a change agent at the point of care and within the healthcare system.
3. Develop and implement programs to achieve educational outcomes based on learners' needs.
4. Evaluate evidence and utilize valid evidence to: understand reliability and validity of research and publications, and be discriminating and discerning regarding the quality of literature and research.
5. Gather, evaluate, and utilize evidence for the improvement of patient outcomes.
6. Facilitate the development, implementation and evaluation of health policy and healthcare delivery.
7. Create a product that advances the science of nursing at the point of care in healthcare delivery, nursing education, or safety and quality practices.

For further information, contact us at MSNurseInfo@uvu.edu or 801-863-6317.

Total Program Credits: 33

Matriculation Requirements:

1. Bachelor's degree in nursing from a program accredited by ACEN or CCNE.
2. Currently licensed as an RN in Utah or eligible for RN licensure in Utah. (Must complete licensure within 90 days after coursework begins.)
3. Completion of an undergraduate course in statistics, including descriptive and inferential statistics.
4. Application for UVU admission to MSN program.
5. Overall undergraduate GPA of 3.2 or higher, or GPA of 3.2 or higher in last 60 semester hours of undergraduate coursework.
6. Three professional letters of recommendation.

Discipline Core Requirements: 33 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 6000</td>
<td>Leadership Development</td>
<td>2</td>
</tr>
<tr>
<td>NURS 6050</td>
<td>Nursing Informatics</td>
<td>2</td>
</tr>
<tr>
<td>NURS 6200</td>
<td>Advanced Nursing Theory</td>
<td>2</td>
</tr>
<tr>
<td>NURS 6250</td>
<td>Advanced Nursing Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 6300</td>
<td>Advanced Nursing in Health Systems and Policy</td>
<td>2</td>
</tr>
<tr>
<td>NURS 6400</td>
<td>Roles and Collaboration in Nursing Education</td>
<td>3</td>
</tr>
<tr>
<td>NURS 6500</td>
<td>Curriculum Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>NURS 6600</td>
<td>Teaching Nursing in the Classroom Setting</td>
<td>2</td>
</tr>
<tr>
<td>NURS 6605</td>
<td>Teaching Nursing in the Classroom Setting Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NURS 6700</td>
<td>Evaluation of Learning Outcomes</td>
<td>3</td>
</tr>
<tr>
<td>NURS 6800</td>
<td>Teaching Nursing in the Clinical Setting</td>
<td>2</td>
</tr>
<tr>
<td>NURS 6805</td>
<td>Teaching Nursing in the Clinical Setting Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NURS 6900</td>
<td>Synthesis of Teaching Practice</td>
<td>1</td>
</tr>
<tr>
<td>NURS 6905</td>
<td>Synthesis of Teaching Practice Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NURS 699R</td>
<td>MSN Project or Thesis</td>
<td>2</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Complete all discipline core courses with a grade of 3.0 or better
2. Project or thesis completed and accepted by Department of Nursing Graduate Committee

Nursing, M.S.N

Careers:

Graduates of the UVU MSN program have the knowledge, skills and experience needed to educate nurses in academic and other professional settings. The program prepares registered nurses for advanced practice roles including nursing faculty in higher education, clinical nurse educators in healthcare institutions, and nursing leadership roles.

Related Careers

- Nursing Instructors and Teachers, Postsecondary
- Registered Nurses
Office of Teaching and Learning

Name: Office of Teaching and Learning
Location: 5th floor of the Library
Telephone: 801-863-8255
Email: dehelp@uvu.edu
Web Address: uvu.edu/de/
Director: TBD

Office of Teaching and Learning

- Senior Director: TBD
- Office: 5th floor of the Library
- Telephone: 801-863-7351
- Email: TBD
- Administrative Assistant IV: Frankie Jensen
- Office: 5th floor of the Library
- Telephone: 801-863-8882
- Email: jensenfr@uvu.edu
- Associate Director, Faculty Development: Ursula Sorensen
- Office: 5th floor of the Library
- Telephone: 801-863-8372
- Email: sorensur@uvu.edu
- Director, Instructional Design Services: Seth Gurell
- Office: 5th floor of the Library
- Telephone: 801-863-7351
- Email: seth.gurell@uvu.edu
- Director, Support Services: Karen Merrick
- Office: 5th floor of the Library
- Telephone: 801-863-7163
- Email: merrick@uvu.edu

About Office of Teaching and Learning

The purpose of the Office of Teaching and Learning is to assist faculty in creating and teaching innovative, high quality online, hybrid, and face-to-face courses that promote academic excellence, enhance student learning, and support degree completion. The Office provides resources and programming for technology-enhanced and engaged pedagogies, hybrid and online course development, and faculty development.

Specifically, the following services are offered:

- Faculty and student technology support for online, hybrid, and face-to-face courses
- Training and support for instructional assistants
- Course specialists for online courses
- Instructional design services
- Technology workshops and training
- Orientation for new and adjunct faculty
- A faculty teaching academy
- Faculty consultation services
- Seminars on cutting edge pedagogical practices
- Support for tenure and promotion
- Faculty learning circles
- Faculty travel funding
- Student Consultants on Teaching (SCOT)

Questions?

Students who have questions about online courses can call our Support Services Center at 801-863-8255, or email dehelp@uvu.edu.

Office of Teaching and Learning

Degrees at a Distance

Credits from Distance Education courses may be applied toward degrees at UVU, and the following degree programs may be earned predominantly or entirely through Distance Education modes of delivery. For information specific to your degree please coordinate with advisor and on-line schedule.

Associate in Science (AS)

1. University Studies - A non-major transfer associate degree that will qualify for pursuit of a four-year degree at UVU or at another college or university.
2. Aviation Science - Designed for transfer to the Aviation or other bachelor degree.
3. Business Management - Designed for transfer to a bachelor program (Requires two on-campus classes).

Associate in Applied Science (AAS)

1. Business Management - A workforce-ready degree (Requires four on-campus classes).

Bachelor of Science (BS)

1. Aviation Science - Students may focus on Professional Pilot or Administration in this regionally accredited degree program. See uvu.edu/aviation for more information.

Authorized Distance Education States

Recent amendments to the Higher Education Act of 1965 include changes in regulation for State Authorization that may impact UVU online, distance, or correspondence education options in certain states.

For a list of states in which UVU is authorized to offer distance education visit our website at uvu.edu/de/state-authorization.html.

If you reside in a state that is not included in this list and you desire to participate in the University's distance or correspondence education opportunities, contact:

- for Aviation or Emergency Services programs, please call 1-888-901-7192;
- for all other programs contact Sam Cardenas 801-863-6945 in Academic Counseling to determine whether the University is able to obtain the authorization that is required by your state.

Student Consumer Complaints

Complaints associated with UVU should be directed to the appropriate university office or department, uvu.edu/audit/concerns/index.html.

Students who have complaints against the University relating to fraud, false advertising, or other deceptive practices can file a complaint with the Utah Division of Consumer Protection, 160 East 300 South, 2nd Floor, Salt Lake City, UT 84111, Telephone No. 801-530-6601, Toll Free in Utah at 1-800-721-SAFE. In addition, students involved with distance and correspondence education can file a complaint with their state's enforcement authority (State Regulators/Student Consumer Complaints: usa.gov/directory/stateconsumer/index.shtml).

Students who have complaints relating to issues that are covered by the student code of conduct should follow the University's process for filing a complaint. The student code of conduct can be found at: uvu.edu/policies/officialpolicy/uploads/public/500/541_550/541_student_rights_and_responsibilities_code.20061116.pdf.

Students who have complaints relating to the University's quality of education or other issues appropriate for its accrediting body to consider, can file a complaint with the Northwest Commission of College and Universities at nwccu.org.
Mission Statement

The UVU Philosophy and Humanities Department is committed to the idea that logic and critical thinking are the core of all academic disciplines. The department engages in the critical study of the intellectual and creative underpinnings of the liberal arts curriculum. The humanities reflect on and interact with those creative enterprises that make us most human: art, architecture, music, and poetry. Philosophy engages theoretical and practical questions about reality and human experience in the life long pursuit of truth and understanding.

In keeping with the democratic ideal of an educated citizenship, the department aims to provide the highest quality educational experience to prepare students for an increasingly complex and intellectually demanding society. The free exploration of ideas will expose students to a variety of perspectives on important issues; the critical examination of those ideas will impart the skills of reflection and decision-making.

The department hopes to develop in its students a set of skills and knowledge useful for all forms of reflection and investigation. First, we teach the skills of critical thinking - both the practical skills of problem solving, and the subtler exercise of reflection on one's own values and beliefs. Second, we teach the skills of communication, through effective speech and clear, rigorous writing. Third, we impart a wide variety of content, including knowledge of the history of philosophy and the humanities, an appreciation and understanding of human diversity, and a connection of these topics to practical life. Fourth, we hope to impart the basic values of the liberal arts, including self-reflectiveness, intellectual curiosity, and creativity.

Philosophy & Humanities

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- Email: donahoer@uvu.edu

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- Email: Heather.Holland@uvu.edu

- Humanities Program Coordinator: Sam Liang
- Telephone: 801-863-6266
- Email: SLiang@uvu.edu

- Humanities Program Coordinator Contact: Leslie Simon
- Telephone: 801-863-8128
- Email: LSimon@uvu.edu

Course Descriptions

Greek................................................................. 649
Humanities....................................................... 659
Latin................................................................. 671
Philosophy......................................................... 704
Religious Studies............................................... 722

Degrees & Programs

Humanities, A.A.

Requirements

The discipline of humanities is the study of human intellectual and artistic creativity and what the resulting artistic forms reveal about the human experience. This field of study draws on other disciplines such as history, fine arts, literature, intellectual history, music, foreign languages, theology, and philosophy to see how the several artistic forms communicate and work together to give an in-depth record of the meaning of human life in the past and present. The discipline also emphasizes the relationship between the arts, culture, and society. A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies.

Total Program Credits: 62

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing–Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing–Science and Technology (3.0)</td>
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</tr>
<tr>
<td>Complete one of the following:</td>
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<td>MATH 1030 Quantitative Reasoning (3.0)</td>
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### Philosophy and Humanities

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<tr>
<th>Course Code</th>
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<td>MATH 1040</td>
<td>Introduction to Statistics</td>
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</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

- HIST 2700  US History to 1877 (3.0)
- HIST 2710  US History since 1877 (3.0)
- HIST 1700  American Civilization (3.0)
- HIST 1740  US Economic History (3.0)
- POLS 1000  American Heritage (3.0)
- POLS 1100  American National Government (3.0)

Complete the following: 3

- PHIL 2050  Ethics and Values
- PHIL 205H  Ethics and Values (3.0)
- PHIL 205G  Ethics and Values (3.0)
- HLTH 1100  Personal Health and Wellness (2.0)
- PES 1097   Fitness for Life (2.0)

**Distribution Courses:**

- Biology (3.0)
- Physical Science (3.0)
- Additional Biology or Physical Science (3.0)
- Humanities Distribution (3.0)
- Fine Arts Distribution (3.0)
- Social/Behavioral Science (3.0)

**Discipline Core Requirements:** 19 Credits

Complete one of the following: 3

- HUM 1010  Humanities Through the Arts (3.0)
- HUM 101H  Humanities Through the Arts (3.0)
- HUM 101G  Humanities Through the Arts (3.0)

Complete one of the following: 3

- HUM 2010  World History Through the Arts I (3.0)
- HUM 201G  World History Through the Arts I (3.0)
- HUM 201H  World History Through the Arts I (3.0)
- HUM 203G  Art Form Focus I (3.0)

Complete one of the following: 3

- HUM 2020  World History Through the Arts II (3.0)
- HUM 202G  World History Through the Arts II (3.0)
- HUM 202H  World History Through the Arts II (3.0)
- HUM 204G  Art Form Focus II (3.0)

Complete 6 credits of the following: 6

- HUM 2100  Adventures of Ideas Through 1500 (3.0)
- HUM 210H  Adventures of Ideas Through 1500 (3.0)
- HUM 2200  Adventures of Ideas After 1500 (3.0)
- HUM 220H  Adventures of Ideas After 1500 (3.0)
- HUM 320R  Topics in Humanities (1.0)
- HUM 325R  Area Studies in Humanities (3.0)
- HUM 330R  Period Studies in Humanities (3.0)

Complete 4 credits from the following: AVC, DANC, HUM, MUSC, PHIL, THEA (1000 level or higher) 4

**Elective Requirements:** 8 Credits

- Same Foreign Language 8

**Graduation Requirements:**

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

**Humanities, A.A.**

**Careers**

A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies. A list of career ideas might include: technical writing, education and outreach, public relations, internal communications, fund-raising, policy research and analysis, program planning, administration, information management, human resources, libraries, museums, and more.

Here are a few articles to help you think about your options, as well:

1) 11 Reasons to Major in the Humanities
2) The Value of the Humanities
3) Types of Jobs offered to those with Humanities Degrees

**Related Careers**

- Postsecondary Teachers, All Other

**Humanities, A.S.**

**Requirements**

The discipline of humanities is the study of human intellectual and artistic creativity and what the resulting artistic forms reveal about the human experience. This field of study draws on other disciplines such as history, fine arts, literature, intellectual history, music, foreign languages, theology, and philosophy to see how the several artistic forms communicate and work together to give an in-depth record of the meaning of human life in the past and present. The discipline also emphasizes the relationship between the arts, culture, and society. A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies.

**Total Program Credits: 62**

**General Education Requirements:** 35 Credits

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<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
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<td>ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
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<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td>3</td>
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<td>MATH 1040</td>
<td>Introduction to Statistics (3.0)</td>
<td>3</td>
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Philosophy and Humanities

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<td>US History to 1877 (3.0)</td>
</tr>
<tr>
<td>and</td>
<td>HIST 2710</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
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<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
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<td>POLS 1100</td>
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</thead>
<tbody>
<tr>
<td>PHIL 205</td>
<td>Ethics and Values</td>
<td>3</td>
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<tr>
<td>or</td>
<td>PHIL 205G</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>PHIL 205H</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>HLTN 1100</td>
<td>2</td>
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<tr>
<td>or</td>
<td>PES 1097</td>
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Distribution Courses:

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<tr>
<th>Area</th>
<th>Course</th>
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<tbody>
<tr>
<td>Biology</td>
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<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
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<tr>
<td>Additional Biology or Physical Science</td>
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<tr>
<td>Humanities Distribution</td>
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</tr>
<tr>
<td>Fine Arts Distribution</td>
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</tr>
<tr>
<td>Social/Behavioral Science</td>
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<td>3</td>
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Discipline Core Requirements: 21 Credits

Complete One of the Following: 3

<table>
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<tr>
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<tbody>
<tr>
<td>HUM 1010</td>
<td>Humanities Through the Arts (3.0)</td>
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<td>or</td>
<td>HUM 101G</td>
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<tr>
<td>or</td>
<td>HUM 101H</td>
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Complete one of the following: 3

<table>
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<tr>
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<tbody>
<tr>
<td>HUM 2010</td>
<td>World History Through the Arts I (3.0)</td>
</tr>
<tr>
<td>or</td>
<td>HUM 2011</td>
</tr>
<tr>
<td>or</td>
<td>HUM 201H</td>
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<tr>
<td>or</td>
<td>HUM 203G</td>
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Complete one of the following: 3

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<tr>
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<tbody>
<tr>
<td>HUM 2020</td>
<td>World History Through the Arts II (3.0)</td>
</tr>
<tr>
<td>or</td>
<td>HUM 2021</td>
</tr>
<tr>
<td>or</td>
<td>HUM 202H</td>
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<td>or</td>
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Complete 6 credits of the following: 6

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<tr>
<td>HUM 2100</td>
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<tr>
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<td>HUM 210H</td>
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<tr>
<td>or</td>
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</tr>
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<td>or</td>
<td>HUM 220H</td>
</tr>
<tr>
<td>or</td>
<td>HUM 3200</td>
</tr>
<tr>
<td>or</td>
<td>HUM 3250</td>
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<td>or</td>
<td>HUM 3300</td>
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</table>

Complete 6 additional credits from the following: AVC, DANC, ENGL, HUM, MUSC, PHIL, THEA (1000 level or higher) 6

Elective Requirements: 6 Credits

1000 level or higher 6

Graduation Requirements:

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
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Philosophy, A.A.

Requirements

Interest in studying philosophy begins with the desire to engage life’s greatest questions: finding the meaning of human existence, making sense of reality and our place in the cosmos, giving systemic form to our ethical and political intuitions, explaining the history of human ideas, and other equally significant problems. Often students wonder how the study of philosophy can provide the foundation for successful and meaningful employment. Contrary to popular belief, a philosophy major is one of the best preparations possible for careers in a large number of different areas. An article in the London Times rightly called philosophy the "ultimate 'transferable work skill" insofar as it prepares students for a wide array of practical services. As a group, philosophy majors consistently score at or near the top on standardized tests, gain employment on graduation at higher than average rates, rank highly in median mid-career salary, and enjoy a well-earned reputation for rigorous thinking. In fact, the Association of American Colleges and Universities tells students, "[y]our specific choice of major matters far less than the knowledge and skills you gain through all your studies and experiences in college. In terms of jobs, employers don’t hire majors. They hire individuals with potential to succeed over the long term and add value to their companies or organizations." The study of philosophy, one of the oldest and most rigorous disciplines, provides students with critical thinking, writing, and arguing skills necessary to succeed in today’s competitive working environments.

Total Program Credits: 60

General Education Requirements: 35 Credits

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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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<tr>
<td>or</td>
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</tr>
<tr>
<td>or</td>
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<tr>
<td>or</td>
<td>MATH 1040</td>
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<tr>
<td>or</td>
<td>MATH 1050</td>
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</table>

Course Catalog 2015-2016  Utah Valley University
**Graduation Requirements:**

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

**Philosophy, A.A.  Careers**

Students pursuing advanced degrees in Philosophy, including a PhD, will likely be looking for tenure-track teaching positions at colleges and universities. Most Philosophy students will go on to graduate school, but not just in Philosophy. Philosophy majors, for example, are the highest average scoring group on the LSAT, GMAT, and GRE. Studying Philosophy develops high-demand skills, like complex critical thinking and problem solving. Therefore, Philosophy graduates can also consider themselves well-prepared for a long list of careers and fields, such as:

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**Discipline Core Requirements:**

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<tr>
<td>PHIL 1000</td>
<td>Introduction to Philosophy (3)</td>
</tr>
<tr>
<td>PHIL 120R</td>
<td>Philosophy Forum (1)</td>
</tr>
<tr>
<td>PHIL 1610</td>
<td>Introduction to Western Religions (3)</td>
</tr>
<tr>
<td>or PHIL 1620</td>
<td>Introduction to Eastern Religions (3)</td>
</tr>
<tr>
<td>PHIL 2000</td>
<td>Formal Logic I (3)</td>
</tr>
<tr>
<td>PHIL 2110</td>
<td>Ancient Greek Philosophy (3)</td>
</tr>
<tr>
<td>PHIL 2150</td>
<td>Early Modern Philosophy (3)</td>
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**Elective Requirements:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Same Foreign Language</td>
<td>8</td>
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<tr>
<td>Any course 1000 level or higher</td>
<td>1</td>
</tr>
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</table>

**Total Program Credits:** 60

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**Graduation Requirements:**

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---

**Related Careers**

- Philosophy and Religion Teachers, Postsecondary

**Philosophy, A.S.  Requirements**

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</tr>
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<td>MATH 1040</td>
<td>Introduction to Statistics (3) (recommended for Social Science majors)</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4) (recommended for Business, Education, Science, and Health Professions majors)</td>
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Philosophy and Humanities

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<td>POLS 1100</td>
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</tr>
<tr>
<td>or</td>
<td>PES 1097</td>
<td>Fitness for Life (2.0)</td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Category</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
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<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 16 Credits

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1000</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 120R</td>
<td>Philosophy Forum</td>
<td>1</td>
</tr>
<tr>
<td>PHIL 1610</td>
<td>Introduction to Western Religions</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>PHIL 1620</td>
<td>Introduction to Eastern Religions (3.0)</td>
</tr>
<tr>
<td>PHIL 2000</td>
<td>Formal Logic I</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2110</td>
<td>Ancient Greek Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2150</td>
<td>Early Modern Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 9 Credits

1000 level or higher 9

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours - minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements

Philosophy, A.S.

Careers

Students pursuing advanced degrees in Philosophy, including a PhD, will likely be looking for tenure-track teaching positions at colleges and universities. Most Philosophy students will go on to graduate school, but not just in Philosophy. Philosophy majors, for example, are the highest average scoring group on the LSAT, GMAT, and GRE. Studying Philosophy develops high-demand skills, like complex critical thinking and problem solving. Therefore, Philosophy graduates can also consider themselves well-prepared for a long list of careers and fields, such as:

- Law
- Advertising
- Higher Education
- Computer Sciences
- Human Resources
- Journalism
- Research Management
- Medicine
- Ethics Officers
- Public Policy
- Government
- Public Relations
- Publishing
- Religion & Ministry

Non-profit/NGOs
- Grant Writing/Fundraising
- Finance

Related Careers

- Philosophy and Religion Teachers, Postsecondary

Ethics, Certificate of Proficiency

Requirements

A student in the Ethics program is offered an innovative approach in correlating various disciplines with structured ethical research. The program offers students opportunities to enhance their capacity to enter their chosen professions, careers, and vocations as ethical leaders. Students will examine real world ethical issues in the context of various disciplines, a valuable credential for employment and further education.

UVU has had a vested interest in Interdisciplinary Ethics since the 1980s, offering prestigious programs such as Ethics Across the Curriculum and hosting the only Ethics Center in the USHE system. The undergraduate Ethics curriculum and the Center for the Study of Ethics have received repeated national recognitions for their innovative and influential programs, conferences, events, symposia, and lecture series that educate students and the community about contemporary ethical issues.

Total Program Credits: 21

Discipline Core Requirements: 9 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3550</td>
<td>Moral Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 481R</td>
<td>Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 12 Credits

Complete 12 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 130R</td>
<td>Ethics Forum</td>
<td>1.0</td>
</tr>
<tr>
<td>PHIL 3010</td>
<td>Media Ethics</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 3000</td>
<td>Media Ethics</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 3450</td>
<td>Philosophy of Childhood</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 3460</td>
<td>The Ethics of Human/Animal Relationships</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 3510</td>
<td>Business and Professional Ethics</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 3520</td>
<td>Bioethics</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 3530</td>
<td>Environmental Ethics</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 3540</td>
<td>Christian Ethics</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 357R</td>
<td>Moral Reasoning Through Case Studies: Ethics Bowl</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 3700</td>
<td>Social and Political Philosophy</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 3710</td>
<td>Philosophy of Law</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 450R</td>
<td>Interdisciplinary Senior Ethics Seminar</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 451R</td>
<td>Ethical Theory Seminar</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 490R</td>
<td>Independent Study</td>
<td>1.0</td>
</tr>
<tr>
<td>ASL 4370</td>
<td>Ethics for Interpreters</td>
<td>3.0</td>
</tr>
<tr>
<td>BIOL 4260</td>
<td>Ethical Issues in Biology</td>
<td>2.0</td>
</tr>
<tr>
<td>CS 305G</td>
<td>Global Social and Ethical Issues in Computing</td>
<td>3.0</td>
</tr>
<tr>
<td>LEGL 3190</td>
<td>Legal Environment</td>
<td>3.0</td>
</tr>
<tr>
<td>NURS 3410</td>
<td>Professional Standards of Nursing</td>
<td>1.0</td>
</tr>
<tr>
<td>PJST 3000</td>
<td>Introduction to Peace and Justice Studies</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Philosophy, A.S.

Careers

Students pursuing advanced degrees in Philosophy, including a PhD, will likely be looking for tenure-track teaching positions at colleges and universities. Most Philosophy students will go on to graduate school, but not just in Philosophy. Philosophy majors, for example, are the highest average scoring group on the LSAT, GMAT, and GRE. Studying Philosophy develops high-demand skills, like complex critical thinking and problem solving. Therefore, Philosophy graduates can also consider themselves well-prepared for a long list of careers and fields, such as:

- Law
- Advertising
- Higher Education
- Computer Sciences
- Human Resources
- Journalism
- Research Management
- Medicine
- Ethics Officers
- Public Policy
- Government
- Public Relations
- Publishing
- Religion & Ministry
Graduation Requirements:
1. Completion of a minimum of 21 credits.
2. Overall grade point average of 2.0 or above.
3. Residency hours -- Minimum of 6 credits required through course attendance at UVU.

Ethics, Certificate of Proficiency
Careers:
The Ethics Minor and Certificate programs are designed to enhance and prepare students from all disciplines to deeply engage ethical questions. The courses are an ideal foundation for any student considering ongoing work or education in the fields of business, law, politics, education, public policy, medicine, clinical research, social work, security, criminal justice, and more.

Related Careers
• Philosophy and Religion Teachers, Postsecondary

Ethics, Minor
Requirements
A student in the Ethics program is offered an innovative approach in correlating various disciplines with structured ethical research. The program offers students opportunities to enhance their capacity to enter their chosen professions, careers, and vocations as ethical leaders. Students will examine real world ethical issues in the context of various disciplines, a valuable credential for employment and further education.

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Total Program Credits: 18

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements:
6 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 3550</td>
<td>Moral Philosophy</td>
</tr>
<tr>
<td>PHIL 481R</td>
<td>Internship</td>
</tr>
</tbody>
</table>

Elective Requirements:
12 Credits

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<th>Course</th>
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<tr>
<td>PHIL 130R</td>
<td>Ethics Forum (1.0)</td>
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<td>ASL 4370</td>
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<td>Professional Standards of Nursing (1.0)</td>
</tr>
<tr>
<td>PJST 3000</td>
<td>Introduction to Peace and Justice Studies (3.0)</td>
</tr>
<tr>
<td>other advisor-approved course</td>
<td></td>
</tr>
</tbody>
</table>

Other advisor-approved course

Ethics, Minor
Careers:
The Ethics Minor and Certificate programs are designed to enhance and prepare students from all disciplines to deeply engage ethical questions. The courses are an ideal foundation for any student considering ongoing work or education in the fields of business, law, politics, education, public policy, medicine, clinical research, social work, security, criminal justice, and more.

Related Careers
• Philosophy and Religion Teachers, Postsecondary

Humanities, Minor
Requirements
The discipline of humanities is the study of human intellectual and artistic creativity and what the resulting artistic forms reveal about the human experience. This field of study draws on other disciplines such as history, fine arts, literature, intellectual history, music, foreign languages, theology, and philosophy to see how the several artistic forms communicate and work together to give an in-depth record of the meaning of human life in the past and present. The discipline also emphasizes the relationship between the arts, culture, and society. A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies.

Total Program Credits: 18

Matriculation Requirements:
1. Overall grade point average of a 2.0 (C) or better
2. Admitted to a bachelor degree program at UVU

Discipline Core Requirements:
3 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>HUM 3500</td>
<td>Approaches to Humanities</td>
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Elective Requirements:
15 Credits

Complete 3 credits from the following:

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<tbody>
<tr>
<td>HUM 2010</td>
<td>World History Through the Arts I (3.0)</td>
</tr>
<tr>
<td>HUM 201G</td>
<td>World History Through the Arts I (3.0)</td>
</tr>
<tr>
<td>HUM 201H</td>
<td>World History Through the Arts I (3.0)</td>
</tr>
<tr>
<td>HUM 203G</td>
<td>Art Form Focus I (3.0)</td>
</tr>
<tr>
<td>HUM 2100</td>
<td>Adventures of Ideas Through 1500 (3.0)</td>
</tr>
<tr>
<td>HUM 210H</td>
<td>Adventures of Ideas Through 1500 (3.0)</td>
</tr>
<tr>
<td>HUM 2020</td>
<td>World History Through the Arts II (3.0)</td>
</tr>
</tbody>
</table>
Philosophy and Humanities

or HUM 202G  World History Through the Arts II (3.0)
or HUM 202H  World History Through the Arts II (3.0)
HUM 204G  Art Form Focus II (3.0)
HUM 2200  Adventures of Ideas After 1500 (3.0)
or HUM 220H  Adventures of Ideas After 1500 (3.0)

Complete 9 credits from the following: 9

HUM 1010  Humanities Through the Arts (3.0)
or HUM 101G  Humanities Through the Arts (3.0)
or HUM 101H  Humanities Through the Arts (3.0)
HUM 320R  Topics in Humanities (1.0)
HUM 325R  Area Studies in Humanities (3.0)
HUM 330R  Period Studies in Humanities (3.0)
HUM 3800  Aesthetics (3.0)
HUM 400R  Humanism and Posthumanism (3.0)
HUM 401R  Forms and Genres Across the Arts (3.0)
HUM 414R  Advanced Topics in Humanities (3.0)

Graduation Requirements:

1. Complete all Humanities courses with a grade of 2.0 (C) or better.

Humanities, Minor Careers

Careers:

A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies. A list of career ideas might include: technical writing, education and outreach, public relations, internal communications, fund-raising, policy research and analysis, program planning, administration, information management, human resources, libraries, museums, and more.

Here are a few articles to help you think about your options, as well:

1) 11 Reasons to Major in the Humanities
2) The Value of the Humanities
3) Types of Jobs offered to those with Humanities Degrees

Related Careers

• Postsecondary Teachers, All Other

Philosophy, Minor

Requirements

Interest in studying philosophy begins with the desire to engage life’s greatest questions: finding the meaning of human existence, making sense of reality and our place in the cosmos, giving systematic form to our ethical and political intuitions, explaining the history of human ideas, and other equally significant problems. Often students wonder how the study of philosophy can provide the foundation for successful and meaningful employment. Contrary to popular belief, a philosophy major is one of the best preparations possible for careers in a large number of different areas. An article in the London Times rightly called philosophy the “ultimate transferable work skill” insomuch as it prepares students for a wide array of practical services. As a group, philosophy majors consistently score at or near the top on standardized tests, gain employment on graduation at higher than average rates, rank highly in median mid-career salary, and enjoy a well-earned reputation for rigorous thinking. In fact, the Association of American Colleges and Universities tells students, “[y]our specific choice of major matters far less than the knowledge and skills you gain through all your studies and experiences in college. In terms of jobs, employers don’t hire majors. They hire individuals with potential to succeed over the long term and add value to their companies or organizations.” The study of philosophy, one of the oldest and most rigorous disciplines, provides students with critical thinking, writing, and arguing skills necessary to succeed in today’s competitive working environments.

Total Program Credits: 18

Matriculation Requirements:

1. Enrollment at Utah Valley University
2. Overall grade point average of a 2.0 (C) or better.
3. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 18 Credits

Complete one of the following: 3

PHIL 2110  Ancient Greek Philosophy (3.0)
or PHIL 2150  Early Modern Philosophy (3.0)

Complete 15 additional credit hours of philosophy courses (9 credit hours must be at 3000 level or above; no more than 6 credit hours may be at the 1000 level; Philosophy 2050 does not count for this requirement.) 15

Philosophy, Minor Careers

Careers:

Students pursuing advanced degrees in Philosophy, including a PhD, will likely be looking for tenure-track teaching positions at colleges and universities. Most Philosophy students will go on to graduate school, but not just in Philosophy. Philosophy majors, for example, are the highest average scoring group on the LSAT, GMAT, and GRE. Studying Philosophy develops high-demand skills, like complex critical thinking and problem solving. Therefore, Philosophy graduates can also consider themselves well-prepared for a long list of careers and fields, such as:

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Higher Education
Computer Sciences
Human Resources
Journalism
Research Management
Medicine
Ethics Officers
Public Policy
Government
Public Relations
Publishing
Religion & Ministry
Non-profit/NGOs
Grant Writing/Fundraising
Finance

Related Careers

• Philosophy and Religion Teachers, Postsecondary

Philosophy, B.A.

Requirements

Interest in studying philosophy begins with the desire to engage life’s greatest questions: finding the meaning of human existence, making sense of reality and our place in the cosmos, giving systematic form to our ethical and political intuitions, explaining the history of human ideas, and other equally significant problems. Often students wonder how the study of philosophy can provide the foundation for successful and meaningful employment. Contrary to popular belief, a philosophy major is one of the best preparations possible for careers in a large number of different areas. An article in the London Times rightly called philosophy the “ultimate transferable work skill” insomuch as it prepares students for a wide array of practical services. As a group, philosophy majors consistently score at or near the top on standardized tests, gain employment on graduation at higher than average rates, rank highly in median

HUM 414R  Advanced Topics in Humanities (3.0)

HUM 1010  Humanities Through the Arts (3.0)
or HUM 101G  Humanities Through the Arts (3.0)
or HUM 101H  Humanities Through the Arts (3.0)
HUM 320R  Topics in Humanities (1.0)
HUM 325R  Area Studies in Humanities (3.0)
HUM 330R  Period Studies in Humanities (3.0)
HUM 3800  Aesthetics (3.0)
HUM 400R  Humanism and Posthumanism (3.0)
HUM 401R  Forms and Genres Across the Arts (3.0)
HUM 414R  Advanced Topics in Humanities (3.0)
mid-career salary, and enjoy a well-earned reputation for rigorous thinking. In fact, the Association of American Colleges and Universities tells students, "[y]our specific choice of major matters far less than the knowledge and skills you gain through all your studies and experiences in college. In terms of jobs, employers don’t hire majors. They hire individuals with potential to succeed over the long term and add value to their companies or organizations. " The study of philosophy, one of the oldest and most rigorous disciplines, provides students with critical thinking, writing, and arguing skills necessary to succeed in today’s competitive working environments.

**Total Program Credits: 120**

### General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 120R</td>
<td>Philosophy Forum</td>
<td>1</td>
</tr>
<tr>
<td>PHIL 2000</td>
<td>Formal Logic I</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2110</td>
<td>Ancient Greek Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2150</td>
<td>Early Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 4910</td>
<td>Philosophy Research Capstone</td>
<td>3</td>
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</tbody>
</table>

### Elective Requirements: 48 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3510</td>
<td>Business and Professional Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3520</td>
<td>Bioethics</td>
<td>3</td>
</tr>
</tbody>
</table>

### Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 40 hours or upper-division credit.
6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
7. Successful completion of at least one Global/Intercultural course.

Note: It is recommended that students planning on earning a Baccalaureate Degree in Philosophy take a foreign language, preferably French or German, in their Freshman and Sophomore academic years. PHIL 120R, PHIL 290R, PHIL 295R, PHIL 400R, PHIL 492R, PHIL 450R, and PHIL 451R can be repeated for credit.

### Philosophy, B.A.

**Careers**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 3530</td>
<td>Environmental Ethics</td>
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<tr>
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<td>Christian Ethics</td>
<td>3</td>
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<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 4140</td>
<td>History of Analytic Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 4150</td>
<td>History of Continental Philosophy</td>
<td>3</td>
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<tr>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 3000</td>
<td>Formal Logic II</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3200</td>
<td>Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3300</td>
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</tr>
<tr>
<td>PHIL 3400</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 4140</td>
<td>History of Analytic Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 4470</td>
<td>Philosophy of Mind</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 4480</td>
<td>Philosophy of Language</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 3470</td>
<td>Pragmatism and American Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3750</td>
<td>Marxist Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3810</td>
<td>Existentialism and Phenomenology</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 386R</td>
<td>Topics in Ancient Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 4130</td>
<td>Nineteenth Century European Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 4150</td>
<td>History of Continental Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete 12 additional credits of Philosophy course work, at least 9 of which must be upper-division (excluding those courses taken to fulfill categories listed above).

### History Set (complete 3 credits from the following): 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 450R</td>
<td>Interdisciplinary Senior Ethics Seminar</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 451R</td>
<td>Ethical Theory Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

### Topic Set I (complete 3 credits, not previously completed, from the following): 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 3000</td>
<td>Formal Logic II</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 4140</td>
<td>History of Analytic Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 4470</td>
<td>Philosophy of Mind</td>
<td>3</td>
</tr>
</tbody>
</table>

### Topic Set II (complete 3 credits, not previously completed, from the following): 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 3470</td>
<td>Pragmatism and American Philosophy</td>
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</tr>
<tr>
<td>PHIL 3750</td>
<td>Marxist Philosophy</td>
<td>3</td>
</tr>
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<td>PHIL 3810</td>
<td>Existentialism and Phenomenology</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 386R</td>
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<td>3</td>
</tr>
<tr>
<td>PHIL 4130</td>
<td>Nineteenth Century European Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 4150</td>
<td>History of Continental Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>

### Elective Requirements: 48 Credits

1. Any course 1000 or higher; 16 credits must be upper-division
2. One Foreign Language
3. Any course 1000 or higher; 16 credits must be upper-division

**Utah Valley University**

**Course Catalog 2015-2016**

461
Philosophy and Humanities

Students pursuing advanced degrees in Philosophy, including a PhD, will likely be looking for tenure-track teaching positions at colleges and universities. Most Philosophy students will go on to graduate school, but not just in Philosophy. Philosophy majors, for example, are the highest average scoring group on the LSAT, GMAT, and GRE. Studying Philosophy develops high-demand skills, like complex critical thinking and problem solving. Therefore, Philosophy graduates can also consider themselves well-prepared for a long list of careers and fields, such as:

- Law
- Advertising
- Higher Education
- Computer Sciences
- Human Resources
- Journalism
- Research Management
- Medicine
- Ethics Officers
- Public Policy
- Government
- Public Relations
- Publishing
- Religion & Ministry
- Non-profit/NGOs
- Grant Writing/Fundraising
- Finance

Related Careers

- Philosophy and Religion Teachers, Postsecondary

Philosophy, B.S.

Requirements

Interest in studying philosophy begins with the desire to engage life's greatest questions: finding the meaning of human existence, making sense of reality and our place in the cosmos, giving systematic form to our ethical and political intuitions, explaining the history of human ideas, and other equally significant problems. Often students wonder how the study of philosophy can provide the foundation for successful and meaningful employment. Contrary to popular belief, a philosophy major is one of the best preparations possible for careers in a large number of different areas. An article in the London Times rightly called philosophy the "ultimate 'transferable work skill'" insofar as it prepares students for a wide array of practical services. As a group, philosophy majors consistently score at or near the top on standardized tests, gain employment on graduation at higher than average rates, rank highly in median mid-career salary, and enjoy a well-earned reputation for rigorous thinking. In fact, the Association of American Colleges and Universities tells students, "...your specific choice of major matters far less than the knowledge and skills you gain through all your studies and experiences in college. In terms of jobs, employers don’t hire majors. They hire individuals with potential to succeed over the long term and add value to their companies or organizations." The study of philosophy, one of the oldest and most rigorous disciplines, provides students with critical thinking, writing, and arguing skills necessary to succeed in today's competitive working environments.

Total Program Credits: 120

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0) (recommended for Social Science majors)</td>
</tr>
</tbody>
</table>

| Discipline Core Requirements: | 37 Credits |

| Complete one of the following: | 3 |
| HIST 2700                     | US History to 1877 (3.0) |
| and HIST 2710                 | US History since 1877 (3.0) |
| HIST 1700                     | American Civilization (3.0) |
| HIST 1740                     | US Economic History (3.0) |
| POLS 1000                     | American Heritage (3.0) |
| POLS 1100                     | American National Government (3.0) |

| Complete the following: | |
| PHIL 2050                    | Ethics and Values | 3 |
| HLTH 1100                   | Personal Health and Wellness (2.0) |
| or PES 1097                  | Fitness for Life | 2 |

<table>
<thead>
<tr>
<th>Distribution Courses:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
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<tr>
<td>Humanities Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

| Ethics Set (complete 3 credits from the following): | 3 |
| PHIL 3510                     | Business and Professional Ethics (3.0) |
| PHIL 3520                     | Bioethics (3.0) |
| PHIL 3530                     | Environmental Ethics (3.0) |
| PHIL 3540                     | Christian Ethics (3.0) |
| PHIL 3550                     | Moral Philosophy (3.0) |
| PHIL 3700                     | Social and Political Philosophy (3.0) |
| PHIL 450R                    | Interdisciplinary Senior Ethics Seminar (3.0) |
| PHIL 451R                    | Ethical Theory Seminar (3.0) |

| History Set (complete 3 credits from the following): | 3 |
| PHIL 4140                     | History of Analytic Philosophy (3.0) |
| PHIL 4150                     | History of Continental Philosophy (3.0) |

| Topics Set I (complete 3 credits, not previously completed, from the following): | 3 |
| PHIL 3000                     | Formal Logic II (3.0) |
| PHIL 3200                     | Metaphysics (3.0) |
| PHIL 3300                     | Epistemology (3.0) |
| PHIL 3400                     | Philosophy of Science (3.0) |
| PHIL 4140                     | History of Analytic Philosophy (3.0) |
PHIL 4470  Philosophy of Mind (3.0)
PHIL 4480  Philosophy of Language (3.0)

Topic Set II (complete 3 credits, not previously completed, from the following):

PHIL 3470  Pragmatism and American Philosophy (3.0)
PHIL 3750  Marxist Philosophy (3.0)
PHIL 3810  Existentialism and Phenomenology (3.0)
PHIL 386R  Topics in Ancient Philosophy (3.0)
PHIL 4130  Nineteenth Century European Philosophy (3.0)
PHIL 4150  History of Continental Philosophy (3.0)

Complete 12 additional credits of Philosophy course work, at least 9 of which must be upper-division (excluding those courses taken to fulfill categories listed above).

Elective Requirements:

Any course 1000 or higher; 16 credits must be upper-division

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 40 hours or upper-division credit.
6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
7. Successful completion of at least one Global/Intercultural course.

Note: It is recommended that students planning on earning a Baccalaureate Degree in Philosophy take a foreign language, preferably French or German, in their Freshman and Sophomore academic years. PHIL 120R, PHIL 290R, PHIL 295R, PHIL 400R, PHIL 492R, PHIL 450R, and PHIL 451R can be repeated for credit.

Philosophy, B.S.

Careers

Students pursuing advanced degrees in Philosophy, including a PhD, will likely be looking for tenure-track teaching positions at colleges and universities. Most Philosophy students will go on to graduate school, but not just in Philosophy. Philosophy majors, for example, are the highest average scoring group on the LSAT, GMAT, and GRE. Studying Philosophy develops high-demand skills, like complex critical thinking and problem solving. Therefore, Philosophy graduates can also consider themselves well-prepared for a long list of careers and fields, such as:

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- Human Resources
- Journalism
- Research Management
- Medicine
- Ethics Officers
- Public Policy
- Government
- Public Relations
- Publishing
- Religion & Ministry
- Non-profit/NGOs
- Grant Writing/Fundraising
- Finance

Related Careers

- Philosophy and Religion Teachers, Postsecondary
Mission Statement

The whole universe is a fair topic for study in physics. No facet is too small or too big to be considered. Physics is the assembly and application of the rational rules by which nature operates. Every action is played out according to its rules. Physicists seek to learn these rules and often apply them in solving problems in other scientific fields such as chemistry, biology and geology, engineering and in many areas of common human experience. Physicists are valued for their ability to rationally approach complex problems and to construct practical solutions. They find fulfilling and satisfying employment not only in the academic world of teaching and research, but in business, industry, consulting and government. Typically half of all BS Physics degree recipients enter the work force immediately in such occupations as those just listed. The rest continue on to graduate school, not only in physics, but in engineering, computer science, medicine and even law or business programs.

Physicists and those trained in physics have been extraordinarily successful in the development of modern industries, including seminal innovations in electronics, optics, computer science, and in energy industries.

Physics at UVU is a very personal endeavor. The small size of our department means that a physics major will benefit by working closely with faculty and fellow students. The faculty will often act as personal tutors and mentors, providing opportunities in research and problem solving that may be more difficult to obtain in a larger department. Access to all the requisite computing facilities and research equipment is available. Our program seeks to match our students’ interests and meet the requirements of future employers.

In addition to a sound understanding of basic physics, our students gain skills in:

- Computational methods
- Computer programming
- Numerical analysis
- Instrumentation, data collection and analysis
- Electronics
- Writing and presentation skills

Degrees & Programs

Physics, Minor

Requirements

Must be admitted to a bachelor degree program at UVU. A minor in physics represents a substantial investment in mastering the basics of physics and gaining suitable problem solving skills that may then be applied to other disciplines. The minor requires 20 credit hours of physics credit.

Total Program Credits: 20

Matriculation Requirements:

1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2210</td>
<td>Physics for Scientists and Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2215</td>
<td>Physics for Scientists and Engineers I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 2220</td>
<td>Physics for Scientists and Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2225</td>
<td>Physics for Scientists and Engineers II Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 3110</td>
<td>Modern Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 3115</td>
<td>Introduction to Experimental Physics I</td>
<td>2</td>
</tr>
</tbody>
</table>

Complete a minimum of 5 credits from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 3050</td>
<td>Astrophysics I (3.0)</td>
<td></td>
</tr>
<tr>
<td>ASTR 3060</td>
<td>Astrophysics II (3.0)</td>
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</tr>
<tr>
<td>PHYS 3120</td>
<td>Modern Physics II (3.0)</td>
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</tr>
<tr>
<td>PHYS 3125</td>
<td>Introduction to Experimental Physics II (2.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 3230</td>
<td>Principles of Electronics for the Physical Sciences (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 3300</td>
<td>Mathematical Physics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 3400</td>
<td>Classical Mechanics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 3500</td>
<td>Thermodynamics (3.0)</td>
<td></td>
</tr>
</tbody>
</table>
PHYS 3800  Energy use on Earth (3.0)
PHYS 4210  Advanced Experimental Techniques (3.0)
PHYS 4300  Computational Physics (3.0)
PHYS 4410  Electrostatics and Magnetism (3.0)
PHYS 4420  Electrodynamics (3.0)
PHYS 4510  Quantum Mechanics I (3.0)
PHYS 4520  Quantum Mechanics II (3.0)
PHYS 4600  Optics (3.0)
PHYS 4700  Acoustics (3.0)
PHYS 4800  Solid State Physics (3.0)
PHYS 490R  Seminar (0.5)
METO 3100  Climate and the Earth System (3.0)

Graduation Requirements:
1. A minimum grade of "C" must be earned in all minor courses.

Physics, Minor

Careers

A minor in physics can contribute to nearly any career, from scientist to teacher, from businessman to artist. A minor in physics establishes a foundation the principles by which nature functions and gives the student skills in rational problem solving in a manner not reproduced in other major programs.

Related Careers
- Natural Sciences Managers
- Physicists
- Physics Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Physics Education, B.S.

Requirements

 Prepares the student to teach high school physics and AP physics. The program allows for those interested to supplement their studies with extra courses in physics or other science through elective upper division credit. A seminar course provides the student with exposure to careers in physics.

Total Program Credits: 120

Matriculation Requirements:
1. Students are admitted directly to the Baccalaureate degree program in Physics Education upon acceptance to the Secondary Education Program.
2. Students must obtain the departmental Advisor's signature on an approved program plan prior to enrollment in their second semester of study.

Secondary Education Requirements:
1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read/Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass LiveScan Criminal Background Check.

General Education Requirements: 39 Credits
ENGL 1010  Introduction to Writing 3

Complete the following:

ENGL 2020  Intermediate Writing--Science and Technology 3
MATH 1210  Calculus I 5

Complete one of the following:

HIST 1700  American Civilization (3.0)
HIST 2700  US History to 1877 (3.0)
and HIST 2710  US History since 1877 (3.0)
HIST 1740  US Economic History (3.0)
POLS 1000  American Heritage (3.0)
POLS 1100  American National Government (3.0)

Complete the following:

PHIL 2050  Ethics and Values 3
HLTH 1100  Personal Health and Wellness (2.0)
or PES 1097  Fitness for Life 2

Distribution Courses:

- Biology 3
- CHEM 1210  Principles of Chemistry I 4
- CHEM 1220  Principles of Chemistry II 4
- Humanities 3
- Fine Arts 3
- Social/Behavioral Science 3

Discipline Core Requirements: 73 Credits

- CHEM 1215  Principles of Chemistry I Laboratory 1
- CHEM 1225  Principles of Chemistry II Laboratory 1
- HIST 4320  History of Scientific Thought 3
- MATH 1220  Calculus II 5
- MATH 2210  Calculus III 3
- PHYS 2210  Physics for Scientists and Engineers I 4
- PHYS 2215  Physics for Scientists and Engineers I Lab 1
- PHYS 2220  Physics for Scientists and Engineers II 4
- PHYS 2225  Physics for Scientists and Engineers II Lab 1
- PHYS 3010  Physics Experiments for Secondary Education 1
- PHYS 3110  Modern Physics I 3
- PHYS 3115  Introduction to Experimental Physics I (2.0) 2
- PHYS 4200  Teaching Methods in Science 3

Education Courses:

- EDSC 3000  Educational Psychology 3
- EDSC 3050  Foundations of American Education 2
- EDSC 3250  Instructional Media 2
- EDSC 4200  Classroom Management I 2
- EDSC 4250  Classroom Management II 2
- EDSC 4440  Content Area Literacies 3
- EDSC 445G  Multicultural Instruction ESL 3
- EDSC 4550  Secondary Curriculum Instruction and Assessment 3
- EDSC 4850  Student Teaching--Secondary 10
- EDSP 3400  Exceptional Students 2

Complete the following set: 9
Complete 8 credits from the following:

<table>
<thead>
<tr>
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<td>Energy use on Earth (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 4700</td>
<td>Acoustics (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Elective Requirements: 8 Credits

Complete 8 credits of upper division electives. 8

Graduation Requirements:
1. Completion of a minimum of 120 semester credits with a minimum of 40 upper-division credits.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours – minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. A minimum of 52 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 24 chemistry and physics credits must be upper-division.
6. Successful completion of at least one Global/Intercultural course.

Footnotes
* Must be repeated two times.

Physics, B.S.

Requirements
A Bachelor's degree in physics provides the student with an understanding of the laws of nature and with the experimental and analytical techniques necessary to describe and solve problems in physical systems. The degree is most useful in preparing students for further graduate study in physics, astronomy, engineering or other science. However, physics BS degree recipients have also entered graduate programs in law and medicine and other diverse programs. Those not intending to pursue advanced degrees find successful employment in a variety of careers, including education, computer science, electronics and related industries and more.

Total Program Credits: 120

Matriculation Requirements:
1. Approval of department chair.

General Education Requirements: 26 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
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<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing – Science and Technology</td>
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Complete one of the following: 3 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
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</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
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<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
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</tbody>
</table>

Complete the following: 9 Credits

<table>
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<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td></td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>PES 1097</td>
<td>Fitness for Life</td>
<td></td>
</tr>
</tbody>
</table>

Elective Requirements: 8 Credits

Complete 9 credits from the following: 9

Distribution Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td></td>
<td>3</td>
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</tbody>
</table>

Discipline Core Requirements: 72 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2210</td>
<td>Physics for Scientists and Engineers I</td>
<td></td>
</tr>
<tr>
<td>PHYS 2215</td>
<td>Physics for Scientists and Engineers I Lab</td>
<td></td>
</tr>
<tr>
<td>PHYS 2220</td>
<td>Physics for Scientists and Engineers II</td>
<td></td>
</tr>
<tr>
<td>PHYS 2225</td>
<td>Physics for Scientists and Engineers II Lab</td>
<td></td>
</tr>
<tr>
<td>PHYS 3110</td>
<td>Modern Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 3115</td>
<td>Introduction to Experimental Physics I</td>
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</tr>
<tr>
<td>PHYS 3120</td>
<td>Modern Physics II</td>
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</tr>
<tr>
<td>PHYS 3125</td>
<td>Introduction to Experimental Physics II</td>
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<tr>
<td>PHYS 3230</td>
<td>Principles of Electronics for the Physical Sciences</td>
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<tr>
<td>PHYS 3300</td>
<td>Mathematical Physics</td>
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<tr>
<td>PHYS 3400</td>
<td>Classical Mechanics</td>
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<tr>
<td>PHYS 3500</td>
<td>Thermodynamics</td>
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<tr>
<td>PHYS 4210</td>
<td>Advanced Experimental Techniques</td>
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<td>PHYS 4300</td>
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<td>PHYS 4410</td>
<td>Electrostatics and Magnetism</td>
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<tr>
<td>PHYS 4600</td>
<td>Optics</td>
<td></td>
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<tr>
<td>PHYS 490R</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>ECE 1020</td>
<td>Computer Engineering Problem Solving with MATLAB and LabVIEW</td>
<td></td>
</tr>
<tr>
<td>MATH 1210</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 1220</td>
<td>Calculus II</td>
<td></td>
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<tr>
<td>MATH 2210</td>
<td>Calculus III</td>
<td></td>
</tr>
<tr>
<td>MATH 2280</td>
<td>Ordinary Differential Equations</td>
<td></td>
</tr>
</tbody>
</table>

Physics Education, B.S.

Careers:
This degree is to prepare the student to teach physics in high schools, both public and private.

Related Careers
- Physics Teachers, Postsecondary
- Education Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Careers:

- Physics Teachers, Postsecondary
- Education Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 3050</td>
<td>Astrophysics I (3.0)</td>
<td></td>
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<tr>
<td>ASTR 3060</td>
<td>Astrophysics II (3.0)</td>
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<tr>
<td>PHYS 3350</td>
<td>Applications of LabVIEW in Physics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 4420</td>
<td>Electrodynamics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 4510</td>
<td>Quantum Mechanics I (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 4520</td>
<td>Quantum Mechanics II (3.0)</td>
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</tr>
<tr>
<td>PHYS 4700</td>
<td>Acoustics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 4800</td>
<td>Solid State Physics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 499A</td>
<td>Senior Project (2.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 499B</td>
<td>Senior Thesis (1.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 4350</td>
<td>Research Methods in Physics (3.0)</td>
<td></td>
</tr>
<tr>
<td>ASTR 4350</td>
<td>Research Methods in Astronomy (3.0)</td>
<td></td>
</tr>
<tr>
<td>BIOL 1610</td>
<td>College Biology I (4.0)</td>
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<tr>
<td>BIOL 1615</td>
<td>College Biology I Laboratory (1.0)</td>
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<tr>
<td>BIOL 1620</td>
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<td>BIOL 1625</td>
<td>College Biology II Laboratory (1.0)</td>
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<td>CHEM 1210</td>
<td>Principles of Chemistry I (4.0)</td>
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<td>Principles of Chemistry I Laboratory (1.0)</td>
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<tr>
<td>CHEM 1220</td>
<td>Principles of Chemistry II (4.0)</td>
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<td>CHEM 1225</td>
<td>Principles of Chemistry II Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>Any BIOL course 3400 or higher except internship and independent study type courses.</td>
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<tr>
<td>Any CHEM course 2310 or higher except internship and independent study type courses.</td>
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<td>Any CS course 1410 or higher except internship and independent study type courses.</td>
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<td>Any EENG course 2700 or higher except internship and independent study type courses.</td>
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<td>Any ENGR course 2010 or higher except internship and independent study type courses.</td>
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<tr>
<td>GEO 1010</td>
<td>Introduction to Geology (3.0)</td>
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<td>GEO 1015</td>
<td>Introduction to Geology Laboratory (1.0)</td>
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<td>GEO 1220</td>
<td>Historical Geology (3.0)</td>
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<td>GEO 1225</td>
<td>Historical Geology Laboratory (1.0)</td>
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<td>Any GEO course 3080 or higher except internship and independent study type courses.</td>
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<tr>
<td>MATH 2270</td>
<td>Linear Algebra (3.0)</td>
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<td>Any MATH course 3200 or higher except internship and independent study type courses.</td>
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<tr>
<td>ASTR 3050</td>
<td>Astrophysics I (3.0)</td>
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<tr>
<td>METO 3100</td>
<td>Climate and the Earth System (3.0)</td>
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<tr>
<td>PHYS 3350</td>
<td>Applications of LabVIEW in Physics (3.0)</td>
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<tr>
<td>PHYS 3800</td>
<td>Energy use on Earth (3.0)</td>
<td></td>
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<tr>
<td>PHYS 4100</td>
<td>Biophysics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 4420</td>
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<tr>
<td>PHYS 4510</td>
<td>Quantum Mechanics I (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 4520</td>
<td>Quantum Mechanics II (3.0)</td>
<td></td>
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<tr>
<td>PHYS 4700</td>
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<td>PHYS 4800</td>
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<td>PHYS 481R</td>
<td>Physics Internship (1.0)</td>
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<tr>
<td>PHYS 489R</td>
<td>Undergraduate Research in Physics (1.0)</td>
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<tr>
<td>PHYS 492R</td>
<td>Topics in Physics (3.0)</td>
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<tr>
<td>PHYS 495R</td>
<td>Independent Readings (1.0)</td>
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<tr>
<td>PHYS 499A</td>
<td>Senior Project (2.0)</td>
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<tr>
<td>PHYS 499B</td>
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<td></td>
</tr>
<tr>
<td>ZOOL 2320</td>
<td>Human Anatomy (3.0)</td>
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<tr>
<td>ZOOL 2325</td>
<td>Human Anatomy Laboratory (1.0)</td>
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<tr>
<td>ZOOL 2420</td>
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<td>ZOOL 2425</td>
<td>Human Physiology Laboratory (1.0)</td>
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<tr>
<td>PHYS 4350</td>
<td>Research Methods in Physics (3.0)</td>
<td></td>
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</table>

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade lower than a "C" in core and elective requirement courses.
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Note: * Suggested elective option for the student intent on continuing physics studies in graduate school. ** Strongly recommended for inclusion in any elective option.

**Physics, B.S.**

**Careers**

Those pursuing advanced physics, or other advanced scientific degrees find employment in federally funded research labs, academic research institutions, industrial research laboratories, and in medical physics facilities such as hospitals and imaging centers. Those that terminate their education with a bachelor's degree find fulfilling careers in industry, engineering, education or government service. Frequently terminal-bachelor careers are focused in computer science, electronics or sciences involving precise measurements.

**Related Careers**

- Natural Sciences Managers
- Physicists
- Physics Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education
**Mission Statement**

The mission of the Department of Community Health is to contribute to the improvement of the well-being of individuals, families and communities. Academic study and course work is designed to guide students toward the intelligent self direction of their health behavior. The department is committed to the development of academic programs that will assist students in the achievement of their professional goals, within the health care field. The faculty is dedicated to superior teaching, professional development (scholarship), and service.

**Public & Community Health**

- **Administrative Support:** Kristie Dockstader
- **Mail Stop:** 170
- **Telephone:** 801-863-8651
- **Email:** dockstkr@uvu.edu

- **Advisor:** Becca Brimhall
- **Telephone:** 801-863-6579
- **Email:** rebecca.brimhall@uvu.edu

Courses in the Public and Community Health area of study lead to possible careers in community health education and promotion, school health, health care management, and other community health and human service administration.

Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health: an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, Health Services Administration Emphasis, or School Health Education. A minor in Community Health Education is available, as well as an endorsement for School Health Education.

**Total Program Credits: 60**

### General Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
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<tr>
<td>or ENGL 2020</td>
<td>3</td>
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</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 1030</td>
<td>3</td>
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<tr>
<td>MATH 1040</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
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### History

<table>
<thead>
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<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>HIST 2700</td>
<td>3</td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>3</td>
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### Political Science

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>POLS 1000</td>
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<tr>
<td>POLS 1100</td>
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### Philosophy

<table>
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<tr>
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<th>Credits</th>
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<tr>
<td>PHIL 2050</td>
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### Health

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>HLTH 1100</td>
<td>2</td>
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</table>
## Public and Community Health

### Course Catalog 2015-2016

#### Utah Valley University

### Community Health, A.A.

#### Careers

Community Health, A.A. Careers

#### Related Careers

- Medical and Health Services Managers
- Community Health Workers

---

**Distribution Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Additional Biology or Physical Science</td>
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<td></td>
<td>Humanities Distribution</td>
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<td></td>
<td>Fine Arts Distribution</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social/Behavioral Science</td>
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**Discipline Core Requirements:**

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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NUTR 1020</td>
<td>Foundations of Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1200</td>
<td>First Aid</td>
<td>2</td>
</tr>
<tr>
<td>HLTH 2400</td>
<td>Concepts of Stress Management</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 2800</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 2600</td>
<td>Drugs Behavior and Society</td>
<td>3</td>
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**Complete 3 credits from the following:**

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<tbody>
<tr>
<td>COMM 2110</td>
<td>Interpersonal Communication</td>
<td>3</td>
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<tr>
<td>ENVT 1110</td>
<td>Introduction to Environmental Management</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 1200</td>
<td>Environmental Worker Safety</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 2560</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 270G</td>
<td>Foundations of Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1300</td>
<td>Medical Terminology I</td>
<td>2</td>
</tr>
<tr>
<td>HLTH 2200</td>
<td>Introduction to Health Professions</td>
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</tr>
<tr>
<td>HLTH 3000</td>
<td>Health Concepts of Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3240</td>
<td>Womens Health Issues</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior</td>
<td>3</td>
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<tr>
<td>NUTR 2020</td>
<td>Nutrition Through the Life Cycle</td>
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<td>PSY 1100</td>
<td>Human Development Life Span</td>
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<tr>
<td>PSY 2250</td>
<td>Psychology of Interpersonal Relationships</td>
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</table>

**Elective Requirements:**

- Same Foreign Language (1010 and 1020) 8 Credits

---

**Graduation Requirements:**

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours though course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

### Community Health, A.S.

#### Requirements

Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health: an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, Health Services Administration Emphasis, or School Health Education. A minor in Community Health Education is available, as well as an endorsement for School Health Education.

**Total Program Credits: 62**

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<th>General Education Credits:</th>
<th>35 Credits</th>
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<td>Introduction to Writing 3</td>
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<td>ENGL 2010</td>
<td>Intermediate Writing–Humanities/Social Sciences 3</td>
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<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing–Science and Technology (3.0)</td>
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**Complete one of the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning</td>
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<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td>3</td>
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<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
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**Complete one of the following:**

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td>3</td>
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<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
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<tr>
<td>POLS 1100</td>
<td>American National Government</td>
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**Complete the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
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<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
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**Distribution Courses**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical Science</td>
<td>3</td>
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<td></td>
<td>Additional Biology or Physical Science</td>
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<tr>
<td></td>
<td>Humanities Distribution</td>
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<tr>
<td></td>
<td>Fine Arts Distribution</td>
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</tr>
<tr>
<td></td>
<td>Social/Behavioral Science</td>
<td>3</td>
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</tbody>
</table>

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 1020</td>
<td>Foundations of Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1200</td>
<td>First Aid</td>
<td>2</td>
</tr>
<tr>
<td>HLTH 2400</td>
<td>Concepts of Stress Management</td>
<td>3</td>
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<td>HLTH 2800</td>
<td>Human Sexuality</td>
<td>3</td>
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<tr>
<td>HLTH 2600</td>
<td>Drugs Behavior and Society</td>
<td>3</td>
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**Complete 13 credits from the following:**

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<tr>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COMM 2110</td>
<td>Interpersonal Communication</td>
<td>3</td>
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<tr>
<td>ENVT 1110</td>
<td>Introduction to Environmental Management</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 1200</td>
<td>Environmental Worker Safety</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 2560</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
</tbody>
</table>
Public and Community Health

EXSC 270G  Foundations of Exercise Science (3.0)
HLTH 1300  Medical Terminology I (2.0)
HLTH 2200  Introduction to Health Professions (2.0)
HLTH 3000  Health Concepts of Death and Dying (3.0)
HLTH 3240  Womens Health Issues (3.0)
MGMT 3000  Organizational Behavior (3.0)
NUTR 2020  Nutrition Through the Life Cycle (3.0)
PSY 1100  Human Development Life Span (3.0)
PSY 2250  Psychology of Interpersonal Relationships (3.0)

Graduation Requirements:
1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Community Health, A.S.
Careers
Community Health, A.S. Careers

Related Careers
• Medical and Health Services Managers
• Community Health Workers

Community Health Education, Minor
Requirements
Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health: an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, Health Services Administration Emphasis, or School Health Education. A minor in Community Health Education is available, as well as an endorsement for School Health Education.

Total Program Credits: 21

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 18 Credits
NUTR 1020  Foundations of Human Nutrition  3
HLTH 2600  Drugs Behavior and Society  3
HLTH 2800  Human Sexuality  3
HLTH 3200  Principles of Community Health  3
HLTH 3220  Foundations of Health Education  3
HLTH 3260  Modifying Health Behavior  3

Elective Requirements: 3 Credits
Any upper-division HLTH course not used in Discipline Core 3

Community Health Education, Minor
Careers
Community Health Education, Minor Careers

Related Careers
• Medical and Health Services Managers
• Community Health Workers

School Health Education, Minor
Requirements
Students MUST have a Secondary Education degree to certify with the School Health Education Endorsement.

Total Program Credits: 21

Matriculation Requirements:
1. Must be accepted into a Secondary Education major program.

Discipline Core Requirements: 21 Credits
NUTR 1020  Foundations of Human Nutrition  3
HLTH 2600  Drugs Behavior and Society  3
HLTH 2800  Human Sexuality  3
HLTH 3200  Principles of Community Health  3
HLTH 3220  Foundations of Health Education  3
HLTH 3260  Modifying Health Behavior  3
HLTH 4100  Health Education Curriculum for Secondary Teachers  3

School Health Education, Minor
Careers
School Health Education, Minor Careers

Related Careers
• Education Teachers, Postsecondary
• Middle School Teachers, Except Special and Career/Technical Education
• Secondary School Teachers, Except Special and Career/Technical Education

Community Health - Community Health Education Emphasis, B.S.

Requirements
Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health: an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, Health Services Administration Emphasis, or School Health Education. A minor in Community Health Education is available, as well as an endorsement for School Health Education.

Total Program Credits: 120

General Education Requirements: 35 Credits
ENGL 1010  Introduction to Writing  3
ENGL 2010  Intermediate Writing--Humanities/Social Sciences  3
or ENGL 2020  Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3
MATH 1030  Quantitative Reasoning  (3.0)
MATH 1040  Introduction to Statistics  (3.0)
MATH 1050  College Algebra  (4.0)

Complete one of the following: 3
HIST 2700  US History to 1877  (3.0)
and HIST 2710  US History since 1877  (3.0)
HIST 1700  American Civilization  (3.0)
HIST 1740  US Economic History  (3.0)
Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life (2.0)</td>
<td></td>
</tr>
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</table>

Distribution Courses

<table>
<thead>
<tr>
<th>Area</th>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>ZOOL 1090</td>
<td>Introduction to Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>ENVT 2560</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>HLTH 3200</td>
<td>Principles of Community Health</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>HLTH 3220</td>
<td>Foundations of Health Education</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>HLTH 3260</td>
<td>Modifying Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science (HLTH 2800 recommended)</td>
<td>HLTH 3400</td>
<td>Human Diseases</td>
<td>3</td>
</tr>
<tr>
<td>or HLTH 3500</td>
<td>International Health</td>
<td>3</td>
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</table>

Emphasis Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 1020</td>
<td>Foundations of Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 2510</td>
<td>Media and Computer Applications in Health</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 2600</td>
<td>Drugs Behavior and Society</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3600</td>
<td>Social Promotion</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 4140</td>
<td>Community Health Assessment and Program Development</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 4160</td>
<td>Program Implementation and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 4300</td>
<td>Community Health Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 4700</td>
<td>Capstone</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 482R</td>
<td>Community Health Internship</td>
<td>6</td>
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<tr>
<td>or HLTH 483R</td>
<td>International Health Education Internship (2.0)</td>
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</table>

Emphasis Elective Requirements:

Complete 9.0 credits of the following - at least 6 of which are upper division

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HLTH 1200</td>
<td>First Aid (2.0)</td>
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</tr>
<tr>
<td>HLTH 2000</td>
<td>Body Image, Self-Esteem, and Weight Management (3.0)</td>
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</tr>
<tr>
<td>HLTH 2400</td>
<td>Concepts of Stress Management (3.0)</td>
<td></td>
</tr>
<tr>
<td>HLTH 2800</td>
<td>Human Sexuality (3.0)</td>
<td></td>
</tr>
<tr>
<td>HLTH 3000</td>
<td>Health Concepts of Death and Dying (3.0)</td>
<td></td>
</tr>
<tr>
<td>HLTH 3240</td>
<td>Womens Health Issues (3.0)</td>
<td></td>
</tr>
<tr>
<td>HLTH 3250</td>
<td>Consumer Health (3.0)</td>
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<tr>
<td>HLTH 3300</td>
<td>Health Promotion for Older Adults (3.0)</td>
<td></td>
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<tr>
<td>HLTH 490R</td>
<td>Special Topics in Community Health (1.0)</td>
<td></td>
</tr>
<tr>
<td>NUTR 2020</td>
<td>Nutrition Through the Life Cycle (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete 16 credits of any courses 1000 or higher (minor).

Graduation Requirements:

1. Completion of a minimum of 120 semester credits with a minimum of 40 upper-division credits. A minimum of at least 10 hours earned in the last 45 hours must be earned at UVU.
2. A minimum of 34 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 20 Health credits must be upper-division.
3. Complete the following courses with a minimum grade of C- or better: HLTH 3200, HLTH 3220, and all Emphasis Courses.
4. Complete at least one Global/Intercultural course.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Community Health - Community Health Education Emphasis, B.S.

**Careers**

Community Health - Community Health Education Emphasis, B.S. Careers

**Related Careers**

- Medical and Health Services Managers
- Community Health Workers

Community Health - Health Services Administration Emphasis, B.S.

**Requirements**

Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health: an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, Health Services Administration Emphasis, or School Health Education. A minor in Community Health Education is available, as well as an endorsement for School Health Education.

**Total Program Credits: 120**

General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 2710</td>
<td>US History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td></td>
</tr>
</tbody>
</table>
Public and Community Health

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ZOOL 1090</td>
<td>Introduction to Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>ENVT 2560</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3200</td>
<td>Principles of Community Health</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3220</td>
<td>Foundations of Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3260</td>
<td>Modifying Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3400</td>
<td>Human Diseases</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 350G</td>
<td>International Health</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 440G</td>
<td>Health and Diversity (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3800</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 4250</td>
<td>Health Services Organization and Policy</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3700</td>
<td>Grant Writing (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or HLTH 4600</td>
<td>Research Methods for Community Health</td>
<td>3</td>
</tr>
</tbody>
</table>

**Distribution Courses**

- Biology
- Physical Science
- Additional Biology or Physical Science
- Humanities Distribution
- Fine Arts Distribution
- Social/Behavioral Science (HLTH 2800 recommended)

**Discipline Core Requirements:** 30 Credits

- Complete the following:
  - PHIL 2050 Ethics and Values 3
  - HLTH 1100 Personal Health and Wellness 2
  - or PES 1097 Fitness for Life (2.0)

**Emphasis Elective Requirements:** 7 Credits

Complete any courses 1000 or higher.

### Graduation Requirements:

1. Completion of a minimum of 120 semester credits with a minimum of 40 upper-division credits. A minimum of at least 10 hours earned in the last 45 hours must be earned at UVU.
2. A minimum of 34 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 20 Health credits must be upper-division.
3. Complete the following courses with a minimum grade of C- or better: HLTH 3200, HLTH 3220, and all Emphasis Courses.
4. Overall grade point average of 2.25 or above with a minimum GPA of 2.75 in Major and Minor courses.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

### Community Health - Health Services Administration Emphasis, B.S.

#### Careers

Community Health - Health Services Administration Emphasis, B.S. Careers

**Related Careers**

- Medical and Health Services Managers
- Community Health Workers

### School Health Education, B.S.

#### Requirements

Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health: an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, Health Services Administration Emphasis, or School Health Education. A minor in Community Health Education is available, as well as an endorsement for School Health Education.

**Total Program Credits: 124**

#### Matriculation Requirements:

1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass LiveScan Criminal Background Check.

#### General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following:

1. HIST 2700 US History to 1877 (3.0)
2. HIST 2710 US History since 1877 (3.0)
3. HIST 1700 American Civilization (3.0)
4. HIST 1740 US Economic History (3.0)
5. POLS 1000 American Heritage (3.0)
6. POLS 1100 American National Government (3.0)

Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
</tbody>
</table>
School Health Education, B.S.

Careers

The Secondary Education School Health Education Bachelor of Science degree, endorses students to teach Health in the Jr. High and High School setting. Students earn a teaching License for the State of Utah.

Related Careers

- Education Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Graduation Requirements:

1. Completion of a minimum of 124 semester credits with a minimum of 40 upper-division credits. A minimum of at least 10 hours earned in the last 45 hours must be earned at UVU.
2. A minimum of 34 credit hours must be in the major with minimum of 20 credits taken at UVU. A minimum of 20 Health credits must be upper-division.
3. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.
Secondary Education

Mission Statement
The School of Education prepares competent, caring and qualified individuals who are ready to assume the role of teacher in elementary and secondary schools, as well as prepare them for further career choices and advancement. The professional program provides essential coursework and experiences to support students as they progress toward becoming professional educators.

Students are engaged in research-based and standards-based instruction in content and pedagogy. Candidates are expected to plan, instruct, and assess in a manner that meets curriculum, school and district goals as well as the diverse instructional and experiential needs of all students. Candidates reflect on their own practice and performance, analyze progress, and make choices for future professional growth. In the Master’s program, new knowledge is put into practice in students’ own classrooms. Graduates acquire knowledge, skills, and dispositions to positively impact students, the community, and themselves as they continue on the journey of life-long learning.

Secondary Education

Department Chair: Raquel Cook
- **Office:** ME 116b
- **Telephone:** 801-863-5777
- **Email:** cookra@uvu.edu

**Administrative Support:** Connie Wright
- **Office:** ME 116
- **Telephone:** 801-863-8228
- **Email:** wrightco@uvu.edu
- **Mail Stop:** 125

**Field Coordinator:** John Burton
- **Office:** ME 131b
- **Telephone:** 801-863-6587
- **Email:** John.Burton@uvu.edu

- **Advisor:** Rick Dumont
- **Office:** ME 114b
- **Telephone:** 801-863-8217
- **Email:** dumontr@uvu.edu

Secondary Education Partner Districts
- Alpine School District
- Canyons School District
- Granite School District
- Jordan School District
- Nebo School District
- North Summit School District
- Park City School District
- Provo School District
- South Summit School District
- Wasatch School District

Professional Teacher Education Program
The Professional Teacher Education Program at Utah Valley University is designed to prepare quality, entry-level candidates for teaching in secondary education programs grades 6-12. All students who matriculate in the professional licensure program must have a major in an approved content area.

The UVU teacher education licensure program is accredited by the Council for the Accreditation of Educator Preparation (CAEP), the Teacher Education Accreditation Council (TEAC), the Utah State Office of Education, and the Northwest Commission on Colleges and Universities.

Admission to the Teacher Education Licensure Program is a separate process from and in addition to admission to Utah Valley University. Meeting the minimum requirements qualifies the student to be considered for admission.

Career Opportunities
Career opportunities result from completion of the UVU Professional Teacher Education Program which qualifies students for a license in Secondary Education. Certain EDSC courses transfer to other institutions offering these programs.

License
Students seeking secondary school licensure in approved content areas complete a major in that area and required coursework in Secondary Education to qualify for a Level I Utah State Professional Educator License for grades 6-12. Post BS/BA students seeking a secondary teaching license complete education course requirements and content area methods courses to qualify for the Level I Professional Educator License. Post BS/BA must be in a compatible major from a regionally accredited institution. Baccalaureate degrees (BS and BA) are granted through the content area department and not through the School of Education.

License/Degree Areas

Admission & Retention
Admission to the Secondary Education Program is required for enrollment in professional studies level courses. Admission criteria*: 1) ACT exam minimums: composite score of 21, English 20, Math 19; or SAT exam minimums: Critical Read/Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement; 2) GPA of 3.00 or higher; and 3) Completion of all General Education requirements and the majority of content area courses; 4) An interview directed by the Teacher Education Admission and Retention Committee; 5) Pass LiveScan Criminal Background check. Applicants are accepted into the Teacher Education Program for fall and spring semesters after meeting entrance requirements.

*Please contact the Secondary Education Advisor for the current admission requirements.

To continue in the program, students are expected to maintain all program standards. They must maintain expected levels of competence in all coursework, field work, and student teaching with all course grades at or above a B- and a program GPA of 3.00 or higher. Additionally, teacher candidates are expected to adhere to standards of professionalism as articulated in the UVU Professional Teacher Dispositions document.

School of Education
- **Dean:** Parker Fawson
- **Office:** ME 117b
- **Telephone:** 801-863-8006
Secondary Education

DEPARTMENT CHAIR
COOK, Raquel Associate Professor

FACULTY
CLARK, Glen Riley Professional Faculty
COOK, Raquel Associate Professor
COX, Susan Associate Professor
KUNAKEMAKORN, Numsiri Associate Professor
RAMIREZ, Axel Professor
REYES, Kyle Assistant Professor
SELLAND, Makenzie Assistant Professor
WAITE, Bryan Associate Professor
WILLIAMS, Julie Assistant Professor
WILLIAMS, Lynda Lecturer
WRIGHT, Kristin Lecturer

Course Descriptions
Edu Secondary Education.......................................................................................... 605

Degrees & Programs
Secondary Education, Licensure

Requirements
The Professional Teacher Education Program at Utah Valley University is designed to prepare quality, entry level candidates for teaching in secondary education programs grades 6-12.

All students who matriculate into the professional licensure program must have a major in an approved content area. Students seeking licensure in approved content areas complete a major in that area and required coursework in Secondary Education to qualify for a Level I Utah State Professional Educator License for grades 6-12.

Baccalaureate degrees (BS and BA) are granted through the content area department and not through the School of Education. Licensure is granted through the School of Education Program.

To continue in the teacher education program, students are expected to maintain all program standards. They must maintain expected levels of competence in all coursework, field work, and student teaching with all course grades at or above a B- or higher. Additionally, teacher candidates are expected to adhere to standards of personal integrity, responsibility, and citizenship commonly expected of professional educators.

Total Program Credits: 32

Matriculation Requirements:

1. ACT exam minimums: Composits 21, English 20, Math 19; or SAT exam minimums: Critical Read/Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department.
5. Pass LiveScan Criminal Background Check.

Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDSC 3000</td>
<td>Educational Psychology</td>
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<td>EDSC 3050</td>
<td>Foundations of American Education</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 3250</td>
<td>Instructional Media</td>
<td>2</td>
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<tr>
<td>EDSP 3400</td>
<td>Exceptional Students</td>
<td>2</td>
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<tr>
<td>EDSC 4200</td>
<td>Classroom Management I</td>
<td>2</td>
</tr>
<tr>
<td>EDSC 4250</td>
<td>Classroom Management II</td>
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<tr>
<td>EDSC 445G</td>
<td>Multicultural Instruction ESL</td>
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<tr>
<td>EDSC 4440</td>
<td>Content Area Literacies</td>
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<td>EDSC 4550</td>
<td>Secondary Curriculum Instruction and Assessment</td>
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</tr>
<tr>
<td>EDSC 4850</td>
<td>Student Teaching--Secondary</td>
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</tr>
</tbody>
</table>

Secondary Education, Licensure

Careers

Related Careers

• Secondary School Teachers, Except Special and Career/Technical Education
Student Leadership and Success Studies

Name: Student Leadership & Success Studies
Location: LC 407
Telephone: 801-863-8834
Email: ereid@uvu.edu
Web Address: www.uvu.edu/slss/
Chair: Marinda Ashman

Student Leadership & Success Studies

- Department Chair: Marinda Ashman
  - Office: LC 407g
  - Telephone: 801-863-7227
  - Email: mashman@uvu.edu
- Assistant Chair: Ben Johnson
  - Office: LC 405d
  - Telephone: 801-863-6725
  - Email: Benjamin.Johnson@uvu.edu
- Administrative Support: Beth Reid
  - Office: LC 407a
  - Telephone: 801-863-8834
  - Email: ereid@uvu.edu
- Director, Student Success/UV Mentor Program: Mike Jensen
  - Office: LC 406a
  - Telephone: 801-863-7090
  - Email: JENSENMI@uvu.edu
- Program Manager, UV Mentor Program: Gretchen Palmer
  - Office: LC 406b
  - Telephone: 801-863-5436
  - Email: Gretchen.Palmer@uvu.edu

The department’s mission is to help students acquire the knowledge, skills and abilities needed to meet the challenges of college. Students may choose from a variety of College Success courses which best fit their academic needs. The College Success courses better prepare students for the demands of college life, the selection and pursuit of major and career paths to graduation, developing effective ways to manage time, learning, and stress, library research techniques, and the development of other essential life skills. Also presented are test taking and memory skills, speed reading techniques, and other learning strategies which help students increase their academic confidence and success.

University College

University College serves a unique role and mission within Utah Valley University. Based on a national model, the name University College signifies opportunity for student success through curricular and co-curricular offerings, academic services and innovative programs. University College welcomes students at present levels of achievement and challenges them with higher expectations. The programs and departments of Basic Composition, Student Leadership & Success Studies, Developmental Mathematics, English Language Learning, Academic Counseling Center, Academic Standards, First Year Experience & Student Retention, and Tutoring and Academic Skills Services (TASS) promote interdisciplinary partnerships as students transition into university academics.

- Dean: Forrest Williams
  - Office: LA 210c
  - Telephone: 801-863-8494
  - Email: forrest.williams@uvu.edu
- Administrative Support: Beth Winkler
Technology Management

Name: Technology Management
Location: GT 616
Telephone: 801-863-8137
Email: UVUTechManagement@uvu.edu
Web Address: uvu.edu/tm
Chair: Cheryl Hanewicz

Mission Statement
The mission of the Technology Management Department is to provide academic degrees in the areas of technical operations, including project and quality management. Our courses provide knowledge and skills through engaged learning and hands-on activities that foster scholarship investigation, ethical responsibility, creativity, and lifelong learning. Students will be prepared for professional careers in management and entrepreneurship, and provided with a strong foundation for advanced academic study. Our graduates will be prepared to contribute to their employers and communities through leadership, innovation, service, and environmental consciousness.

Technology Management
Advisor: Carrie Peterson
• Telephone: 801-863-7454
• Email: petersca@uvu.edu

DEPARTMENT CHAIR
HANEWICZ, Cheryl Associate Professor

FACULTY
ARENDT, Anne Assistant Professor
HANEWICZ, Cheryl Associate Professor
OLSON, Floyd L. Associate Professor
THORNLEY, Russell Assistant Professor
TREGO, Angela Lecturer

Course Descriptions
Apprentice...........................................................................................................521
Technology Management..................................................................................... 734

Degrees & Programs
Technology, A.A.S.

Requirements
The Associate in Applied Science in Technology has been designed for individuals working in a technical area who have considerable work experience and/or have obtained specialized certifications, licenses, apprenticeships, etc. Many of these students will be looking for a degree to allow them better upward mobility in their professions or education to help them become entrepreneurs. Students initially take a class to develop a portfolio that presents licenses and work-related certifications as well as provides a rationale for receiving technical, experiential credit. Core courses provide fundamental knowledge of contemporary technologies, and elective courses allow students to enhance their technical skills in one or more technical areas. A supervisory course is also required so students can learn to manage workers in technology-driven organizations.

Total Program Credits: 63

General Education Requirements: 16 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1600</td>
<td>Technical Math—Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>or MATH 1040</td>
<td>Introduction to Statistics (3.0) (Recommended for students intending to continue on to the BS Degree in Technology Management)</td>
<td></td>
</tr>
<tr>
<td>or MATH 1050</td>
<td>College Algebra (4.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total General Education Credits: 16

Biology / Physical Science
Health / PE / Safety / Environment
Humanities / Fine Arts
TECH 2000 Technology and Human Life

Discipline Core Requirements: 23 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 1000</td>
<td>Experiential Credit Portfolio Development and Assessment</td>
<td>2</td>
</tr>
<tr>
<td>or This requirement may be satisfied by R473 Matriculation Agreement. (2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TECH 110R</td>
<td>Technical Experiential Credit</td>
<td>6</td>
</tr>
<tr>
<td>or This requirement may be satisfied by R473 Matriculation Agreement. (6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TECH 1010</td>
<td>Understanding Technology</td>
<td>3</td>
</tr>
<tr>
<td>or IM 2010</td>
<td>Business Computer Proficiency</td>
<td>3</td>
</tr>
<tr>
<td>TECH 2010</td>
<td>Supervision in Technology</td>
<td>3</td>
</tr>
<tr>
<td>Technical Area Credits - With advisor approval, students must select a minimum of 6 credits. See catalog for 2-year AAS programs for course selections.</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>or This requirement may be satisfied by R473 Matriculation Agreement. (6)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Elective Requirements: 24 Credits

Students must select a minimum of 24 credits of electives from the following or other advisor approved course work:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 110R</td>
<td>Technical Experiential Credit (1.0)</td>
<td></td>
</tr>
<tr>
<td>Additional Technical Area credits as approved by Advisor.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 101G</td>
<td>Social/Cultural Anthropology (3.0)</td>
<td></td>
</tr>
<tr>
<td>BIOL 1010</td>
<td>General Biology (3.0)</td>
<td></td>
</tr>
<tr>
<td>BIOL 1015</td>
<td>General Biology Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>BIOL 1070</td>
<td>Heredity (3.0)</td>
<td></td>
</tr>
<tr>
<td>CHEM 1010</td>
<td>Introduction to Chemistry (3.0)</td>
<td></td>
</tr>
<tr>
<td>CHEM 1110</td>
<td>Elementary Chemistry for the Health Sciences (4.0)</td>
<td></td>
</tr>
<tr>
<td>CHEM 1115</td>
<td>Elementary Chemistry Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>SLSS 1000</td>
<td>University Student Success (3.0)</td>
<td></td>
</tr>
<tr>
<td>SLSS 1200</td>
<td>The 7 Habits of Highly Effective People (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 1050</td>
<td>Introduction to Speech Communication (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 1500</td>
<td>Introduction to Mass Communication (3.0)</td>
<td></td>
</tr>
<tr>
<td>COMM 3030</td>
<td>Mass Communication and Society (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGR 1000</td>
<td>Introduction to Engineering (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 1110</td>
<td>Introduction to Environmental Management</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

Total Elective Credits: 24

Additional Technical Area credits as approved by Advisor.

Total Program Credits: 63
Technology Management

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVT 1510</td>
<td>Hazardous Materials Emergency Response (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENVT 2800</td>
<td>Skills for Humanitarian Projects (3.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 1010</td>
<td>Introduction to Geology (3.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 1015</td>
<td>Introduction to Geology Laboratory (1.0)</td>
<td></td>
</tr>
<tr>
<td>MAT 1010</td>
<td>Intermediate Algebra (4.0)</td>
<td></td>
</tr>
<tr>
<td>PHSC 1000</td>
<td>Survey of Physical Science (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 1010</td>
<td>Elementary Physics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHYS 3800</td>
<td>Energy use on Earth (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td></td>
</tr>
<tr>
<td>MATH 2040</td>
<td>Principles of Statistics</td>
<td></td>
</tr>
<tr>
<td>MATH 3040</td>
<td>Probability and Statistics for Engineering and the Sciences</td>
<td></td>
</tr>
<tr>
<td>MGMT 2240</td>
<td>Business Quantitative Analysis</td>
<td></td>
</tr>
<tr>
<td>MGMT 2340</td>
<td>Business Statistics I</td>
<td></td>
</tr>
<tr>
<td>MGMT 3450</td>
<td>Operations Management</td>
<td></td>
</tr>
<tr>
<td>TECH 3000</td>
<td>Introduction to Technology Management</td>
<td></td>
</tr>
<tr>
<td>TECH 3010</td>
<td>Creativity Innovation and Change Management</td>
<td></td>
</tr>
<tr>
<td>TECH 3400</td>
<td>Project Management</td>
<td></td>
</tr>
<tr>
<td>TECH 3700</td>
<td>Materials Management</td>
<td></td>
</tr>
<tr>
<td>TECH 3470</td>
<td>Lean Management Systems</td>
<td></td>
</tr>
<tr>
<td>TECH 3850</td>
<td>Quality Assurance in Technology</td>
<td></td>
</tr>
<tr>
<td>TECH 3070</td>
<td>Total Quality Management</td>
<td></td>
</tr>
<tr>
<td>TECH 4000</td>
<td>Reliability Engineering and Safety</td>
<td></td>
</tr>
<tr>
<td>TECH 4400</td>
<td>Advanced Project Management</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Complete a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours - minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements
5. This degree MAY apply toward the BS in Technology Management, if the majority of course work is in a related technical area, and has been approved by the department to be used toward the BSTM.

Technology, A.A.S.
Careers
Technology, A.A.S. Careers

Six Sigma Green Belt, Certificate of Proficiency
Requirements

The Six Sigma Green Belt Certificate at UVU demonstrates knowledge in quality improvement and elimination of waste or defects in production processes. It can be utilized in every aspect of business such as production, human resources, information technology, and customer service. This certificate is built into the curriculum of the Bachelor of Science in Technology Management program. Students who complete this credential have high-demand, industry-recognized skill sets.

Total Program Credits: 27

Matriculation Requirements:
1. University Advanced Standing

Discipline Core Requirements: 27 Credits
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 3000</td>
<td>Introduction to Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3010</td>
<td>Creativity Innovation and Change Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3400</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3700</td>
<td>Materials Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3470</td>
<td>Lean Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3850</td>
<td>Quality Assurance in Technology</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3070</td>
<td>Total Quality Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4000</td>
<td>Reliability Engineering and Safety</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4400</td>
<td>Advanced Project Management</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 27 credits.
2. Overall grade point average of 3.0 (B) or above. Students must complete each course with a grade "B" or higher.
3. Residency hours -- minimum of 7 credit hours through course attendance at UVU.

Six Sigma Green Belt, Certificate of Proficiency
Careers

Today's businesses and industries are demanding employees with strong business process improvement capabilities. Companies are operating in more dynamic and competitive work environments. A Six Sigma Green Belt Certificate prepares graduates for a multitude of professional careers, including the following: general management; quality control and assurance; production processing; research and development; advanced manufacturing; reliability and safety; and project management.

Related Careers
• Computer and Information Systems Managers
• Industrial Production Managers
• Construction Managers
• Logisticians
• Business Teachers, Postsecondary
• First-Line Supervisors of Mechanics, Installers, and Repairers
• First-Line Supervisors of Production and Operating Workers

Technology Management, Minor
Requirements

The Technology Management Minor will provide students the opportunity to explore many aspects of technology management, including project management, quality assurance, and creativity, as well as become more aware of the issues surrounding technology. This background will also benefit such students in their quest for employment, since project management and its related skills are highly sought after by employers.

Total Program Credits: 21

Discipline Core Requirements: 15 Credits
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 3000</td>
<td>Introduction to Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3400</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3850</td>
<td>Quality Assurance in Technology</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4000</td>
<td>Reliability Engineering and Safety</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4420</td>
<td>Organization Information Technologies</td>
<td>3</td>
</tr>
<tr>
<td>or MGMT 3450</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>or MGMT 3170</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>or MGMT 3470</td>
<td>Lean Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>or MGMT 3070</td>
<td>Total Quality Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4000</td>
<td>Reliability Engineering and Safety</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 credits from the following:

6 Credits

Select 6 credits from the following:
Technology Management

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 3010</td>
<td>Creativity Innovation and Change Management</td>
<td>3.0</td>
</tr>
<tr>
<td>TECH 3700</td>
<td>Materials Management</td>
<td>3.0</td>
</tr>
<tr>
<td>TECH 405G</td>
<td>Global Ethical and Professional Issues in Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>TECH 4200</td>
<td>Technology Marketing and Distribution</td>
<td>3.0</td>
</tr>
<tr>
<td>TECH 4400</td>
<td>Advanced Project Management</td>
<td>3.0</td>
</tr>
<tr>
<td>TECH 497R</td>
<td>Independent Study</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Technology Management, Minor Careers

Related Careers
- Computer and Information Systems Managers
- Industrial Production Managers
- Construction Managers
- Logisticians
- Business Teachers, Postsecondary
- First-Line Supervisors of Mechanics, Installers, and Repairers
- First-Line Supervisors of Production and Operating Workers

TM Emphasis in Arts and Visual Communications

Requirements
For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>45 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>ART 1120 2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 1400 Graphic Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>ART 1110 Drawing I</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete an additional 36 credits from the AVC courses. 36

TM Emphasis in Arts and Visual Communications Careers

Exercise Science
- Physical Therapy
- Physician's Assistant
- Occupational Therapist
- Respiratory Therapist
- Sports Nutritionist
- Strength and Conditioning Specialist
- Weight Reduction Specialist
- Cardiopulmonary Rehabilitation Specialist
- Chiropractic Specialist
- Clinical Exercise Physiologist
- Corporate Fitness Instructor
- Diet Center Director
- Exercise Testing Technician
- Health/Fitness Instructor
- Event Planner
- Facility Manager
- Aquatics Coordinator
- Fitness Business Owner
- Sports Facility Manager
- Sports Facility Director
- Wellness Counselor
- Corporate Wellness
- Academic Advisor/Athletics
- Assessment and Evaluation
- Program Development
- Personal Training
- Rehabilitation
- Strength and Conditioning
- Health Club Management
- Group Fitness Instruction

Physical Education Teacher Education
- Physical Education Teacher
- Research
- Adaptive Physical Education Specialist
- Coach
- Recreational Sports Administration
Outdoor Recreation

- Adventure Travel Coordinator
- Resort Facilitator
- Mountain Guide
- Outdoor Recreation Planning
- Parks
- Natural Resource Management
- Recreation Management
- Program Management
  - Administration
  - Camp management
  - Program management
- Community center management
- Recreational center management
  - Administration
  - Recreational Retailing
  - Camp Director
  - Recreation Leader
  - Recreation Therapist
  - Adventure/Risk Trainer
  - Recreation Specialist
  - Prison Recreation Specialist
  - Product Representative

TM Emphasis in Automotive Technology

Requirements

For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 1110 Brake Systems</td>
<td>2</td>
</tr>
<tr>
<td>AUT 111L Brake Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1120 Manual Power Trains</td>
<td>2</td>
</tr>
<tr>
<td>AUT 112L Manual Power Trains Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1130 Engine Repair</td>
<td>2</td>
</tr>
<tr>
<td>AUT 113L Engine Repair Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1160 Automotive Electrical Systems</td>
<td>2</td>
</tr>
<tr>
<td>AUT 116L Automotive Electrical Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1170 Engine Electrical Systems</td>
<td>2</td>
</tr>
<tr>
<td>AUT 117L Engine Electrical Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1210 Suspension and Steering Systems</td>
<td>2</td>
</tr>
<tr>
<td>AUT 121L Suspension and Steering Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1220 Automatic Transmissions and Transaxles</td>
<td>2</td>
</tr>
<tr>
<td>AUT 122L Automatic Transmissions and Transaxles Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 1230 Engine Performance</td>
<td>2</td>
</tr>
<tr>
<td>AUT 123L Engine Performance Lab</td>
<td>1</td>
</tr>
<tr>
<td>AUT 2110 Advanced Steering Suspension and Alignment</td>
<td>2</td>
</tr>
<tr>
<td>AUT 2120 Advanced Engine Performance</td>
<td>2</td>
</tr>
<tr>
<td>AUT 2130 Advanced Emission Control Systems</td>
<td>2</td>
</tr>
<tr>
<td>AUT 2140 Chassis Electrical and Electronics Systems</td>
<td>2</td>
</tr>
<tr>
<td>AUT 2210 Advanced Braking and Control Systems</td>
<td>2</td>
</tr>
</tbody>
</table>

or

| AUT 2220 Automatic Transmissions and Electronic Controls | 2 |
| AUT 2240 Heating Ventilation Air Conditioning and Refrigeration Theory | 2 |
| AUT 2250 Electronic Fuel Management Systems (2.0) | 2 |

Complete 5 credits from the following:

| AUT 201L Automotive Service Practicum Engine Performance and Steering Suspension (2.0) | 5 |
| AUT 202L Automotive Service Practicum Emission Controls and Chassis Electronics (2.0) |
| AUT 203L Automotive Service Practicum Brake Systems and Transmission Controls (2.0) |
| AUT 204L Automotive Service Practicum Fuel Management Systems and HVACR (2.0) |
| AUT 281R Cooperative Work Experience (1.0) |

TM Emphasis in Automotive Technology Careers

Exercise Science

- Physical Therapy
- Physician’s Assistant
- Occupational Therapist
- Respiratory Therapist
- Sports Nutritionist
- Strength and Conditioning Specialist
- Weight Reduction Specialist
- Cardiopulmonary Rehabilitation Specialist
- Chiropractic Specialist
- Clinical Exercise Physiologist
- Corporate Fitness Instructor
- Diet Center Director
- Exercise Testing Technician
- Health/Fitness Instructor
- Event Planner
- Facility Manager
- Aquatics Coordinator
- Fitness Business Owner
- Sports Facility Manager
- Sports Facility Director
- Wellness Counselor
- Corporate Wellness
- Academic Advisor/Athletics
- Assessment and Evaluation
- Program Development
- Personal Training
- Rehabilitation
- Strength and Conditioning
- Health Club Management
- Group Fitness Instruction

Physical Education Teacher Education

- Physical Education Teacher
- Research
- Adaptive Physical Education Specialist
- Coach
- Recreational Sports Administration
Outdoor Recreation
- Adventure Travel Coordinator
- Resort Facilitator
- Mountain Guide
- Outdoor Recreation Planning
- Parks
- Natural Resource Management
- Recreation Management
- Program Management
- Administration
- Camp management
- Program management
- Community center management
- Recreational center management
- Administration
- Recreational Retailing
- Camp Director
- Recreation Leader
- Recreation Therapist
- Adventure/Risk Trainer
- Recreation Specialist
- Prison Recreation Specialist
- Product Representative

TM Emphasis in Aviation Science

Requirements
For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>36 Credits</th>
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</thead>
<tbody>
<tr>
<td>AVSC 1010 Survey of Aviation Science</td>
<td>2</td>
</tr>
<tr>
<td>AVSC 1050 Introduction to Aviation Administration</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 1100 Ground Private Pilot</td>
<td>4</td>
</tr>
<tr>
<td>AVSC 1110 Flight Private Pilot Certification</td>
<td>3</td>
</tr>
<tr>
<td>AVSC 1230 Flight Cross Country</td>
<td>2</td>
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<tr>
<td>AVSC 1240 Ground Instrument Pilot</td>
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<tr>
<td>AVSC 1250 Flight Instrument Pilot</td>
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<tr>
<td>AVSC 1260 21st Century Avionics and Instrumentation</td>
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<tr>
<td>AVSC 2150 Air Transportation Management</td>
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<tr>
<td>AVSC 2160 Aviation Law</td>
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<tr>
<td>AVSC 2300 Ground Commercial Pilot</td>
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<tr>
<td>AVSC 2310 Flight Commercial Pilot</td>
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<tr>
<td>AVSC 2440 Ground Multi-Engine</td>
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<tr>
<td>AVSC 2450 Flight Multi-Engine</td>
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Elective Requirements: 9 Credits
Complete 9 credits from the following:

| AVSC 2400 Ground Certified Flight Instructor | 4.0 |
| AVSC 2410 Flight Certified Flight Instructor | 1.0 |
| AVSC 2420 Ground CFI Instrument | 1.0 |
| AVSC 2430 Flight CFI Instrument | 1.0 |
| AVSC 2500 Ground Multi-Engine Instructor | 1.0 |

Graduation Requirements:
1. Students should take no more than 4 credit hours of aviation co-op (AVSC 281R/285R/481R/485R) toward the aviation elective section of the Technology Management degree.

TM Emphasis in Aviation Science

Careers
- Exercise Science
  - Physical Therapy
  - Physician's Assistant
  - Occupational Therapist
  - Respiratory Therapist
  - Sports Nutritionist
  - Strength and Conditioning Specialist
  - Weight Reduction Specialist
  - Cardiopulmonary Rehabilitation Specialist
  - Chiropractic Specialist
  - Clinical Exercise Physiologist
  - Corporate Fitness Instructor
  - Diet Center Director
  - Exercise Testing Technician
  - Health/Fitness Instructor
  - Event Planner
  - Facility Manager
  - Aquatics Coordinator
  - Fitness Business Owner
  - Sports Facility Manager
  - Sports Facility Director
  - Wellness Counselor
  - Corporate Wellness
  - Academic Advisor/Athletics
  - Assessment and Evaluation
  - Program Development
  - Personal Training
  - Rehabilitation
  - Strength and Conditioning
  - Health Club Management
  - Group Fitness Instruction

Physical Education Teacher Education
- Physical Education Teacher
- Research
- Adaptive Physical Education Specialist
- Coach
- Recreational Sports Administration
Outdoor Recreation
• Adventure Travel Coordinator
• Resort Facilitator
• Mountain Guide
• Outdoor Recreation Planning
• Parks
• Natural Resource Management
• Recreation Management
• Program Management
• Administration
• Camp Management
• Program management
• Community Center Management
• Recreational Center Management
• Administration
• Recreational Retailing
• Camp Director
• Recreation Leader
• Recreation Therapist
• Adventure/Risk Trainer
• Recreation Specialist
• Prison Recreation Specialist
• Product Representative

TM Emphasis in Building Construction and Construction Management

Careers

Exercise Science
• Physical Therapy
• Physician's Assistant
• Occupational Therapist
• Respiratory Therapist
• Sports Nutritionist
• Strength and Conditioning Specialist
• Weight Reduction Specialist
• Cardiopulmonary Rehabilitation Specialist
• Chiropractic Specialist
• Clinical Exercise Physiologist
• Corporate Fitness Instructor
• Diet Center Director
• Exercise Testing Technician
• Health/Fitness Instructor
• Event Planner
• Facility Manager
• Aquatics Coordinator
• Fitness Business Owner
• Sports Facility Manager
• Sports Facility Director
• Wellness Counselor
• Corporate Wellness
• Academic Advisor/Athletics
• Assessment and Evaluation
• Program Development
• Personal Training
• Rehabilitation
• Strength and Conditioning
• Health Club Management
• Group Fitness Instruction

Physical Education Teacher Education
• Physical Education Teacher
• Research
• Adaptive Physical Education Specialist
• Coach
• Recreational Sports Administration

TM Emphasis in Building Construction and Construction Management

Requirements
For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 46

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
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<tbody>
<tr>
<td>BCCM 1110 Principles of Residential Framing</td>
<td>3</td>
</tr>
<tr>
<td>BCCM 1120 Blueprint Reading</td>
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<td>BCCM 1150 Building Construction Safety</td>
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<tr>
<td>BCCM 1170 Principles of Mechanical Electrical and Plumbing Design</td>
<td>2</td>
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<tr>
<td>BCCM 1190 Framing and Concrete Lab</td>
<td>5</td>
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<tr>
<td>BCCM 1210 Principles of Finish Carpentry</td>
<td>3</td>
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<tr>
<td>BCCM 1220 Finishing Lab</td>
<td>5</td>
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<tr>
<td>BCCM 1230 Construction Estimating</td>
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<tr>
<td>BCCM 1240 Roofs Stairs and Specialty Framing</td>
<td>3</td>
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<tr>
<td>BCCM 1250 Utah Contractors License Regulation and Procedure</td>
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<td>BCCM 1260 Computer Estimating</td>
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<tr>
<td>CMGT 1020 Construction Materials and Methods I</td>
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<td>CMGT 3000 Principles of Construction Scheduling</td>
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<td>BIT 1010 Building Codes</td>
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<tr>
<td>BIT 1020 Residential Codes (3.0)</td>
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<td>EGD 1400 Surveying</td>
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<tr>
<td>EGD 1020 3D Architectural Modeling (3.0)</td>
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<tr>
<td>or EGD 1090 Introduction to Architecture Drafting</td>
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</table>
Outdoor Recreation
- Adventure Travel Coordinator
- Resort Facilitator
- Mountain Guide
- Outdoor Recreation Planning
- Parks
- Natural Resource Management
- Recreation Management
- Program Management
- Administration
- Camp management
- Program management
- Community center management
- Recreational center management
- Administration
- Recreational Retailing
- Camp Director
- Recreation Leader
- Recreation Therapist
- Adventure/Risk Trainer
- Recreation Specialist
- Prison Recreation Specialist
- Product Representative

TM Emphasis in Building Inspection Technology

Careers

Exercise Science
- Physical Therapy
- Physician's Assistant
- Occupational Therapist
- Respiratory Therapist
- Sports Nutritionist
- Strength and Conditioning Specialist
- Weight Reduction Specialist
- Cardiopulmonary Rehabilitation Specialist
- Chiropractic Specialist
- Clinical Exercise Physiologist
- Corporate Fitness Instructor
- Diet Center Director
- Exercise Testing Technician
- Health/Fitness Instructor
- Event Planner
- Facility Manager
- Aquatics Coordinator
- Fitness Business Owner
- Sports Facility Manager
- Sports Facility Director
- Wellness Counselor
- Corporate Wellness
- Academic Advisor/Athletics
- Assessment and Evaluation
- Program Development
- Personal Training
- Rehabilitation
- Strength and Conditioning
- Health Club Management
- Group Fitness Instruction

Physical Education Teacher Education
- Physical Education Teacher
- Research
- Adaptive Physical Education Specialist
- Coach
- Recreational Sports Administration

Requirements

For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

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<thead>
<tr>
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<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
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<tbody>
<tr>
<td>BIT 1010 Building Codes</td>
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<tr>
<td>BIT 1170 Field Lab–Building Codes</td>
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<tr>
<td>BIT 1230 Plan Review</td>
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<td>BIT 1240 Plumbing Codes</td>
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<tr>
<td>BIT 1330 Mechanical Codes</td>
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<tr>
<td>or CMGT 3020 Building Envelopes and Mechanical Systems (3.0)</td>
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<tr>
<td>BIT 1340 Electrical Codes</td>
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<td>BIT 1380 Ride-Along Lab</td>
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<td>EGDT 1020 3D Architectural Modeling</td>
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<tr>
<td>EGDT 1400 Surveying</td>
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<tr>
<td>MATH 1040 Introduction to Statistics</td>
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<tr>
<td>CMGT 1010 Introduction to Construction Management</td>
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<td>CMGT 1020 Construction Materials and Methods I</td>
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<tr>
<td>CMGT 2010 Construction Materials and Methods II</td>
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<tr>
<td>CMGT 1190 Concrete and Framing Lab</td>
<td>3</td>
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<tr>
<td>and CMGT 1220 Finishing Lab</td>
<td>3</td>
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<tr>
<td>CMGT 3010 Construction Materials Testing</td>
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<tr>
<td>CMGT 399R Student Professional Organization</td>
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</table>
Outdoor Recreation
- Adventure Travel Coordinator
- Resort Facilitator
- Mountain Guide
- Outdoor Recreation Planning
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- Recreational center management
- Administration
- Recreational Retailing
- Camp Director
- Recreation Leader
- Recreation Therapist
- Adventure/Risk Trainer
- Recreation Specialist
- Prison Recreation Specialist
- Product Representative

TM Emphasis in Cabinetry and Architectural Woodwork

Careers

Exercise Science
- Physical Therapy
- Physician's Assistant
- Occupational Therapist
- Respiratory Therapist
- Sports Nutritionist
- Strength and Conditioning Specialist
- Weight Reduction Specialist
- Cardiopulmonary Rehabilitation Specialist
- Chiropractic Specialist
- Clinical Exercise Physiologist
- Corporate Fitness Instructor
- Diet Center Director
- Exercise Testing Technician
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- Sports Facility Director
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- Corporate Wellness
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- Assessment and Evaluation
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- Personal Training
- Rehabilitation
- Strength and Conditioning
- Health Club Management
- Group Fitness Instruction

Physical Education Teacher Education
- Physical Education Teacher
- Research
- Adaptive Physical Education Specialist
- Coach
- Recreational Sports Administration

TM Emphasis in Cabinetry and Architectural Woodwork

Requirements

For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

<table>
<thead>
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<th>Discipline Core Requirements:</th>
<th>45 Credits</th>
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<tbody>
<tr>
<td>Complete 45 credits from the following:</td>
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<tr>
<td>CAW 1130 Residential Cabinetry (4.0)</td>
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<tr>
<td>CAW 1140 Millworking and Safety Shop I (5.0)</td>
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<tr>
<td>CAW 1150 Design Drafting and Billing (3.0)</td>
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<td>CAW 1170 Finish Technology (2.0)</td>
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<tr>
<td>CAW 1210 Cabinetmaking Materials and Hardware (1.0)</td>
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<tr>
<td>CAW 1240 Millworking Shop II (5.0)</td>
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<tr>
<td>CAW 1250 Drafting and Computer Applications for Cabinetmakers (4.0)</td>
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<td>CAW 2300 Counter-top Technology (3.0)</td>
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<tr>
<td>CAW 2310 Cabinetry Math (2.0)</td>
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<tr>
<td>CAW 2340 Millworking Shop III (5.0)</td>
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<td>CAW 2440 Millworking Shop IV (5.0)</td>
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<td>CAW 2450 Machine Maintenance and Upkeep (2.0)</td>
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<tr>
<td>CAW 2430 Commercial Cabinetry Technology (4.0)</td>
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<td>CAW 299R Skills USA (1.0)</td>
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<td>EGDT 1040 Computer Aided Drafting–AutoCAD (3.0)</td>
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</table>
Outdoor Recreation
- Adventure Travel Coordinator
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- Recreational center management
- Administration
- Recreational Retailing
- Camp Director
- Recreation Leader
- Recreation Therapist
- Adventure/Risk Trainer
- Recreation Specialist
- Prison Recreation Specialist
- Product Representative

TM Emphasis in Collision Repair Technology

Requirements
For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

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<thead>
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<th>Discipline Core Requirements</th>
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<td>AUT 1160 Automotive Electrical Systems</td>
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<td>AUT 2240 Heating Ventilation Air Conditioning and Refrigeration Theory</td>
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<td>AUT 224L Automotive HVAC Lab</td>
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<td>CRT 1110 Surface Preparation</td>
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<td>CRT 111L Surface Preparation Lab</td>
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<tr>
<td>CRT 1120 Nonstructural Repair</td>
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<tr>
<td>CRT 112L Nonstructural Repair Lab</td>
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<tr>
<td>CRT 1130 Overall Refinishing and Problem Solving</td>
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<td>CRT 113L Overall Refinishing and Problem Solving Lab</td>
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<tr>
<td>CRT 1140 Panel Replacement and Adjustment</td>
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<td>CRT 114L Panel Replacement and Adjustment Lab</td>
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<td>CRT 1210 Blending Tinting and Detailing</td>
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<td>CRT 121L Blending Tinting and Detailing Lab</td>
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<td>CRT 1230 Welding and Cutting</td>
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<td>CRT 123L Welding and Cutting Lab</td>
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<tr>
<td>CRT 2310 Collision Damage Reporting</td>
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<td>CRT 231L Collision Damage Reporting Lab</td>
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<tr>
<td>CRT 2320 Structural Damage Analysis</td>
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<td>CRT 232L Structural Damage Analysis Lab</td>
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<tr>
<td>CRT 2330 Structural Repair</td>
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TM Emphasis in Collision Repair Technology

Careers
- Physical Therapy
- Physician's Assistant
- Occupational Therapist
- Respiratory Therapist
- Sports Nutritionist
- Strength and Conditioning Specialist
- Weight Reduction Specialist
- Cardiopulmonary Rehabilitation Specialist
- Chiropractic Specialist
- Clinical Exercise Physiologist
- Corporate Fitness Instructor
- Diet Center Director
- Exercise Testing Technician
- Health/Fitness Instructor
- Event Planner
- Facility Manager
- Aquatics Coordinator
- Fitness Business Owner
- Sports Facility Manager
- Sports Facility Director
- Wellness Counselor
- Corporate Wellness
- Academic Advisor/Athletics
- Assessment and Evaluation
- Program Development
- Personal Training
- Rehabilitation
- Strength and Conditioning
- Health Club Management
- Group Fitness Instruction

Physical Education Teacher Education
- Physical Education Teacher
- Research
- Adaptive Physical Education Specialist
- Coach
- Recreational Sports Administration
Outdoor Recreation

- Adventure Travel Coordinator
- Resort Facilitator
- Mountain Guide
- Outdoor Recreation Planning
- Parks
- Natural Resource Management
- Recreation Management
- Program Management
- Administration
- Camp management
- Program management
- Community center management
- Recreational center management
- Administration
- Recreational Retailing
- Camp Director
- Recreation Leader
- Recreation Therapist
- Adventure/Risk Trainer
- Recreation Specialist
- Prison Recreation Specialist
- Product Representative

TM Emphasis in Construction Management

Careers

Exercise Science

- Physical Therapy
- Physician's Assistant
- Occupational Therapist
- Respiratory Therapist
- Sports Nutritionist
- Strength and Conditioning Specialist
- Weight Reduction Specialist
- Cardiopulmonary Rehabilitation Specialist
- Chiropractic Specialist
- Clinical Exercise Physiologist
- Corporate Fitness Instructor
- Diet Center Director
- Exercise Testing Technician
- Health/Fitness Instructor
- Event Planner
- Facility Manager
- Aquatics Coordinator
- Fitness Business Owner
- Sports Facility Manager
- Sports Facility Director
- Wellness Counselor
- Corporate Wellness
- Academic Advisor/Athletics
- Assessment and Evaluation
- Program Development
- Personal Training
- Rehabilitation
- Strength and Conditioning
- Health Club Management
- Group Fitness Instruction

Physical Education Teacher Education

- Physical Education Teacher
- Research
- Adaptive Physical Education Specialist
- Coach
- Recreational Sports Administration

Discipline Core Requirements:

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<th>Course Title</th>
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<td>BIT 1020</td>
<td>Residential Codes</td>
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<td>or BIT 1010</td>
<td>Building Codes (3.0)</td>
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<td>EGDT 1020</td>
<td>3D Architectural Modeling</td>
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<td>EGDT 1400</td>
<td>Surveying</td>
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<td>CMGT 1010</td>
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<td>CMGT 1020</td>
<td>Construction Materials and Methods I</td>
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<td>CMGT 1150</td>
<td>Construction Safety</td>
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<td>CMGT 2010</td>
<td>Construction Materials and Methods II</td>
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<tr>
<td>CMGT 3000</td>
<td>Principles of Construction Scheduling</td>
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<td>CMGT 3010</td>
<td>Construction Materials Testing</td>
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<td>CMGT 3020</td>
<td>Building Envelopes and Mechanical Systems</td>
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<tr>
<td>CMGT 3030</td>
<td>Principles of Construction Estimating</td>
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<td>CMGT 3040</td>
<td>Construction Job Site Management</td>
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<td>CMGT 3060</td>
<td>Applied Statics and Strength of Materials</td>
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<td>CMGT 3160</td>
<td>Building Information Modeling</td>
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<td>CMGT 4010</td>
<td>Construction Contracts</td>
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Total Program Credits: 45

For a complete list of program requirements see the BS Technology Management.
Outdoor Recreation
• Adventure Travel Coordinator
• Resort Facilitator
• Mountain Guide
• Outdoor Recreation Planning
• Parks
• Natural Resource Management
• Recreation Management
• Program Management
• Administration
• Camp management
• Community center management
• Recreational center management
• Administration
• Recreational Retailing
• Camp Director
• Recreation Leader
• Recreation Therapist
• Adventure/Risk Trainer
• Recreation Specialist
• Prison Recreation Specialist
• Product Representative

TM Emphasis in Diesel Mechanics Technology

Careers
Exercise Science
• Physical Therapy
• Physician’s Assistant
• Occupational Therapist
• Respiratory Therapist
• Sports Nutritionist
• Strength and Conditioning Specialist
• Weight Reduction Specialist
• Cardiopulmonary Rehabilitation Specialist
• Chiropractic Specialist
• Clinical Exercise Physiologist
• Corporate Fitness Instructor
• Diet Center Director
• Exercise Testing Technician
• Health/Fitness Instructor
• Event Planner
• Facility Manager
• Aquatics Coordinator
• Fitness Business Owner
• Sports Facility Manager
• Sports Facility Director
• Wellness Counselor
• Corporate Wellness
• Academic Advisor/Athletics
• Assessment and Evaluation
• Program Development
• Personal Training
• Rehabilitation
• Strength and Conditioning
• Health Club Management
• Group Fitness Instruction

Physical Education Teacher Education
• Physical Education Teacher
• Research
• Adaptive Physical Education Specialist
• Coach
• Recreational Sports Administration

Total Program Credits: 48

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<tr>
<td>DMT 1110 Diesel Engine Overhaul</td>
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<td>DMT 111L Diesel Engine Overhaul Lab</td>
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<td>DMT 1120 Diesel Engine Operation/Tune Up</td>
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<td>DMT 112L Diesel Engine Operation/Tune-up Lab</td>
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<tr>
<td>DMT 1510 Electrical Systems Theory</td>
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<td>DMT 151L Electrical Systems Lab</td>
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<tr>
<td>DMT 1520 Engine Electronics and Diagnostics Theory</td>
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<td>DMT 152L Engine Electronics and Diagnostics</td>
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<td>DMT 2230 Heating Ventilation Air Conditioning and Refrigeration Theory</td>
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<td>DMT 223L Climate Control Lab</td>
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<td>DMT 2310 Fluid Power Theory</td>
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<td>DMT 231L Fluid Power Lab</td>
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<td>DMT 2320 Fluid Power Transmission Theory</td>
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<td>DMT 232L Fluid Power Transmission Lab</td>
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<td>DMT 2410 Chassis Theory</td>
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<td>DMT 241L Chassis Lab</td>
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<td>DMT 2420 Power Trains Theory</td>
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<td>DMT 242L Power Trains Lab</td>
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</table>
Outdoor Recreation
• Adventure Travel Coordinator
• Resort Facilitator
• Mountain Guide
• Outdoor Recreation Planning
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• Natural Resource Management
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• Recreational center management
• Administration
• Recreational Retailing
• Camp Director
• Recreation Leader
• Recreation Therapist
• Adventure/Risk Trainer
• Recreation Specialist
• Prison Recreation Specialist
• Product Representative

TM Emphasis in Digital Media

Requirements
For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

<table>
<thead>
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<th>Discipline Core Requirements:</th>
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</tr>
<tr>
<td>DGM 1110 Digital Media Essentials I</td>
<td>4</td>
</tr>
<tr>
<td>DGM 2110 Digital Motion Picture Essentials</td>
<td>3</td>
</tr>
<tr>
<td>DGM 2120 Web Essentials</td>
<td>3</td>
</tr>
<tr>
<td>DGM 2130 Digital Audio Essentials</td>
<td>3</td>
</tr>
<tr>
<td>DGM 2210 3D Modeling and Animation Essentials</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective Requirements: 28 Credits

Complete 28 credits from approved DGM electives (see advisor) 28

TM Emphasis in Digital Media Careers

Exercise Science
• Physical Therapy
• Physician’s Assistant
• Occupational Therapist
• Respiratory Therapist
• Sports Nutritionist
• Strength and Conditioning Specialist
• Weight Reduction Specialist
• Cardiopulmonary Rehabilitation Specialist
• Chiropractic Specialist
• Clinical Exercise Physiologist
• Corporate Fitness Instructor
• Diet Center Director
• Exercise Testing Technician
• Health/Fitness Instructor
• Event Planner
• Facility Manager
• Aquatics Coordinator
• Fitness Business Owner
• Sports Facility Manager
• Sports Facility Director
• Wellness Counselor
• Corporate Wellness
• Academic Advisor/Athletics
• Assessment and Evaluation
• Program Development
• Personal Training
• Rehabilitation
• Strength and Conditioning
• Health Club Management
• Group Fitness Instruction

Physical Education Teacher Education
• Physical Education Teacher
• Research
• Adaptive Physical Education Specialist
• Coach
• Recreational Sports Administration
Outdoor Recreation
• Adventure Travel Coordinator
• Resort Facilitator
• Mountain Guide
• Outdoor Recreation Planning
• Parks
• Natural Resource Management
• Recreation Management
• Program Management
• Administration
• Camp management
• Program management
• Community center management
• Recreational center management
• Administration
• Recreational Retailing
• Camp Director
• Recreation Leader
• Recreation Therapist
• Adventure/Risk Trainer
• Recreation Specialist
• Prison Recreation Specialist
• Product Representative

TM Emphasis in Drafting Technology

Requirements
For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>45 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>EGDT 1010 Electrical-Electronic Drafting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1020 3D Architectural Modeling (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1040 Computer Aided Drafting–AutoCAD (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1070 3 Dimensional Modeling–Inventor (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or EGDT 1071 3 Dimensional Modeling–Solidworks (3.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 1100 Architectural Drafting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1200 Mechanical Drafting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1300 Structural Drafting (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1400 Surveying (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 2020 Descriptive Geometry (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 2040 Piping Drafting (3.0)</td>
<td>2</td>
</tr>
<tr>
<td>EGDT 2050 Plate Layout (3.0)</td>
<td>2</td>
</tr>
<tr>
<td>EGDT 2600 Statics (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 2810 Strength of Materials (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>Complete a minimum of 8 credits from the following:</td>
<td>8</td>
</tr>
<tr>
<td>EGDT 1060 MicroStation (2.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 1080 AutoLisp (2.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2010 Advanced Electrical–CAD (2.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2100 Advanced Architectural (3.0)</td>
<td></td>
</tr>
<tr>
<td>EGDT 2200 Advanced Mechanical (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

TM Emphasis in Drafting Technology

Careers

Exercise Science
• Physical Therapy
• Physician's Assistant
• Occupational Therapist
• Respiratory Therapist
• Sports Nutritionist
• Strength and Conditioning Specialist
• Weight Reduction Specialist
• Cardiopulmonary Rehabilitation Specialist
• Chiropractic Specialist
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• Strength and Conditioning
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• Group Fitness Instruction

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• Physical Education Teacher
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• Coach
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- Natural Resource Management
- Recreation Management
- Program Management
- Administration
- Camp management
- Program management
- Community center management
- Recreational center management
- Administration
- Recreational Retailing
- Camp Director
- Recreation Leader
- Recreation Therapist
- Adventure/Risk Trainer
- Recreation Specialist
- Prison Recreation Specialist
- Product Representative

TM Emphasis in Electrical Automation and Robotics Technology

Careers

Exercise Science
- Physical Therapy
- Physician's Assistant
- Occupational Therapist
- Respiratory Therapist
- Sports Nutritionist
- Strength and Conditioning Specialist
- Weight Reduction Specialist
- Cardiopulmonary Rehabilitation Specialist
- Chiropractic Specialist
- Clinical Exercise Physiologist
- Corporate Fitness Instructor
- Diet Center Director
- Exercise Testing Technician
- Health/Fitness Instructor
- Event Planner
- Facility Manager
- Aquatics Coordinator
- Fitness Business Owner
- Sports Facility Manager
- Sports Facility Director
- Wellness Counselor
- Corporate Wellness
- Academic Advisor/Athletics
- Assessment and Evaluation
- Program Development
- Personal Training
- Rehabilitation
- Strength and Conditioning
- Health Club Management
- Group Fitness Instruction

Physical Education Teacher Education
- Physical Education Teacher
- Research
- Adaptive Physical Education Specialist
- Coach
- Recreational Sports Administration

Requirements
For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>44 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EART 1130  Basic Electrical Theory for EART Technicians</td>
<td>4</td>
</tr>
<tr>
<td>EART 1050  Applied Electrical Math For EART Technicians</td>
<td>5</td>
</tr>
<tr>
<td>EART 1180  Basic Electrical Lab for EART Technicians</td>
<td>5</td>
</tr>
<tr>
<td>EART 1280  DC and AC Machines for EART Technicians</td>
<td>5</td>
</tr>
<tr>
<td>EART 1285  DC and AC Machines Lab for EART Technicians</td>
<td>4</td>
</tr>
<tr>
<td>EART 2110  Industrial Electronics for EART Technicians I</td>
<td>6</td>
</tr>
<tr>
<td>EART 2150  Industrial Hydraulics and Pneumatics</td>
<td>3</td>
</tr>
<tr>
<td>EART 2160  Industrial Electronics for EART Technicians II</td>
<td>5</td>
</tr>
<tr>
<td>EART 2250  Industrial Programmable Logic Controllers--PLC's</td>
<td>5</td>
</tr>
<tr>
<td>EGDT 1000  Introduction to Engineering Drawing and Technical Design</td>
<td>2</td>
</tr>
</tbody>
</table>

Elective Requirements: 1 Credit
- Electives in EART based on chosen option (students must see advisor for list of approved course options). 1
Outdoor Recreation
- Adventure Travel Coordinator
- Resort Facilitator
- Mountain Guide
- Outdoor Recreation Planning
- Parks
- Natural Resource Management
- Recreation Management
- Program Management
- Administration
- Camp management
- Program management
- Community center management
- Recreational center management
- Administration
- Recreational Retailing
- Camp Director
- Recreation Leader
- Recreation Therapist
- Adventure/Risk Trainer
- Recreation Specialist
- Prison Recreation Specialist
- Product Representative

TM Emphasis in Emergency Services

Careers

Exercise Science
- Physical Therapy
- Physician's Assistant
- Occupational Therapist
- Respiratory Therapist
- Sports Nutritionist
- Strength and Conditioning Specialist
- Weight Reduction Specialist
- Cardiopulmonary Rehabilitation Specialist
- Chiropractic Specialist
- Clinical Exercise Physiologist
- Corporate Fitness Instructor
- Diet Center Director
- Exercise Testing Technician
- Health/fitness Instructor
- Event Planner
- Facility Manager
- Aquatics Coordinator
- Fitness Business Owner
- Sports Facility Manager
- Sports Facility Director
- Wellness Counselor
- Corporate Wellness
- Academic Advisor/Athletics
- Assessment and Evaluation
- Program Development
- Personal Training
- Rehabilitation
- Strength and Conditioning
- Health Club Management
- Group Fitness Instruction

Physical Education Teacher Education
- Physical Education Teacher
- Research
- Adaptive Physical Education Specialist
- Coach
- Recreational Sports Administration

TM Emphasis in Emergency Services

Requirements

For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>45 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any Emergency Services advisor approved courses.</td>
<td>45</td>
</tr>
</tbody>
</table>
Outdoor Recreation
- Adventure Travel Coordinator
- Resort Recreational Counselor
- Mountain Guide
- Outdoor Recreation Planning
- Parks
- Natural Resource Management
- Recreation Management
- Program Management
- Administration
- Camp management
- Program management
- Community center management
- Recreational center management
- Administration
- Recreational Retailing
- Camp Director
- Recreation Leader
- Recreation Therapist
- Adventure/Risk Trainer
- Recreation Specialist
- Prison Recreation Specialist
- Product Representative

TM Emphasis in Facilities Management

Careers

Exercise Science
- Physical Therapy
- Physician's Assistant
- Occupational Therapist
- Respiratory Therapist
- Sports Nutritionist
- Sports Nutritionist
- Strength and Conditioning Specialist
- Weight Reduction Specialist
- Cardiopulmonary Rehabilitation Specialist
- Chiropractic Specialist
- Clinical Exercise Physiologist
- Corporate Fitness Instructor
- Diet Center Director
- Exercise Testing Technician
- Health/Exercise Instructor
- Event Planner
- Facility Manager
- Aquatics Coordinator
- Fitness Business Owner
- Sports Facility Manager
- Sports Facility Director
- Wellness Counselor
- Corporate Wellness
- Academic Advisor/Athletics
- Assessment and Evaluation
- Program Development
- Personal Training
- Rehabilitation
- Strength and Conditioning
- Health Club Management
- Group Fitness Instruction

Physical Education Teacher Education
- Physical Education Teacher
- Research
- Adaptive Physical Education Specialist
- Coach
- Recreational Sports Administration

TM Emphasis in Facilities Management

Requirements

For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIT 1010 Building Codes</td>
<td>3</td>
</tr>
<tr>
<td>BIT 1230 Plan Review</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 1150 Construction Safety</td>
<td>2</td>
</tr>
<tr>
<td>CMGT 281R Internship</td>
<td>4</td>
</tr>
<tr>
<td>CMGT 3000 Principles of Construction Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 3020 Building Envelopes and Mechanical Systems</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 3030 Principles of Construction Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 3160 Building Information Modeling</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1020 3D Architectural Modeling</td>
<td>3</td>
</tr>
<tr>
<td>EGDT 1600 Technical Math—Algebra</td>
<td>3</td>
</tr>
<tr>
<td>FAC 1010 Survey of Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3130 Real Estate Principles and Finance</td>
<td>3</td>
</tr>
<tr>
<td>LEGL 3140 Real Estate Law</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 2200 Written Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3000 Organizational Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>
Outdoor Recreation
- Adventure Travel Coordinator
- Resort Facilitator
- Mountain Guide
- Outdoor Recreation Planning
- Parks
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- Recreation Management
- Program Management
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- Program management
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- Recreational center management
- Administration
- Recreational Retailing
- Camp Director
- Recreation Leader
- Recreation Therapist
- Adventure/Risk Trainer
- Recreation Specialist
- Prison Recreation Specialist
- Product Representative

TM Emphasis in Information Systems and Technology

Requirements
For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

Discipline Core Requirements: 33 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 1120</td>
<td>Information Systems and Technology Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>INFO 1200</td>
<td>Computer Programming I for IS/IT</td>
<td>3</td>
</tr>
<tr>
<td>IT 1510</td>
<td>Introduction to System Administration–Linux/UNIX</td>
<td>3</td>
</tr>
<tr>
<td>IT 1600</td>
<td>Computer Architecture and Systems Software</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2200</td>
<td>Computer Programming II for IS/IT</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2410</td>
<td>Database Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2420</td>
<td>Web Application Design</td>
<td>3</td>
</tr>
<tr>
<td>IT 2600</td>
<td>Data Communication Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3410</td>
<td>Database Systems and Warehousing</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3430</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>IT 3600</td>
<td>Internetworking and Router Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements: 12 Credits

Complete a minimum of 12 credits from the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IM 2010</td>
<td>Business Computer Proficiency</td>
<td>3</td>
</tr>
<tr>
<td>IT 2400</td>
<td>Voice and Data Cabling Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>IT 2530</td>
<td>Introduction to System Administration–Windows Client</td>
<td>3</td>
</tr>
<tr>
<td>IT 2700</td>
<td>Information Security Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>IT 2800</td>
<td>Computer Forensic Fundamentals</td>
<td>3</td>
</tr>
</tbody>
</table>

Any approved Accounting- or Business-related Course up to 6 credits

TM Emphasis in Information Systems and Technology Careers

Exercise Science
- Physical Therapy
- Physician's Assistant
- Respiratory Therapist
- Sports Nutritionist
- Strength and Conditioning Specialist
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- Chiropractic Specialist
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- Corporate Fitness Instructor
- Diet Center Director
- Exercise Testing Technician
- Health/Fitness Instructor
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- Facility Manager
- Aquatics Coordinator
- Fitness Business Owner
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- Sports Facility Director
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- Corporate Wellness
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• Program management
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• Recreational center management
• Administration
• Recreational Retailing
• Camp Director
• Recreation Leader
• Recreation Therapist
• Adventure/Risk Trainer
• Recreation Specialist
• Prison Recreation Specialist
• Product Representative

TM Emphasis in Integrated Technology
Requirements
For a complete list of program requirements see the BS Technology Management.

Total Program Credits: 45

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>45 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completion of 45 credits from a single technical area or two related technical areas as approved by the Technology Management advisor. Credits must be earned through a recognized accredited institution. Possible Technical Areas may include:</td>
<td>45</td>
</tr>
<tr>
<td>Art &amp; Visual Communication</td>
<td>Mechanics</td>
</tr>
<tr>
<td>Graphic Communications</td>
<td>Plumbing</td>
</tr>
<tr>
<td>Photography</td>
<td>Surveying</td>
</tr>
<tr>
<td>Visual Arts</td>
<td>Welding</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>Computing/Digital Technologies</td>
</tr>
<tr>
<td>Collision Repair</td>
<td>Broadcasting</td>
</tr>
<tr>
<td>Diesel Equipment</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Aviation</td>
<td>Computer Support</td>
</tr>
<tr>
<td>Construction Technologies</td>
<td>Digital Media</td>
</tr>
<tr>
<td>Building Construction</td>
<td>Internetworking</td>
</tr>
<tr>
<td>Building Inspection</td>
<td>Information Systems</td>
</tr>
<tr>
<td>Cabinetry</td>
<td>Office Technology</td>
</tr>
<tr>
<td>Carpentry</td>
<td>Technical Computer Applications</td>
</tr>
<tr>
<td>Drafting</td>
<td>Web Design</td>
</tr>
<tr>
<td>Facilities Management</td>
<td>Electronics Technology</td>
</tr>
<tr>
<td>HVAC</td>
<td>Electrical Automation</td>
</tr>
<tr>
<td>Masonry</td>
<td>Electrician</td>
</tr>
<tr>
<td></td>
<td>Industrial Motor Controls</td>
</tr>
<tr>
<td></td>
<td>Lineman Technology</td>
</tr>
<tr>
<td></td>
<td>Residential Wiring</td>
</tr>
<tr>
<td></td>
<td>Manufacturing Technology</td>
</tr>
<tr>
<td></td>
<td>Robotics</td>
</tr>
<tr>
<td></td>
<td>Environmental Technology</td>
</tr>
<tr>
<td></td>
<td>Machinist</td>
</tr>
<tr>
<td></td>
<td>Materials Science</td>
</tr>
<tr>
<td></td>
<td>Operations Technology</td>
</tr>
<tr>
<td></td>
<td>Power Equipment Technology</td>
</tr>
<tr>
<td></td>
<td>Precision Machinery</td>
</tr>
<tr>
<td></td>
<td>Technical Drafting</td>
</tr>
<tr>
<td></td>
<td>Medical Technologies</td>
</tr>
<tr>
<td></td>
<td>Biotechnology Technician</td>
</tr>
<tr>
<td></td>
<td>Culinary Arts</td>
</tr>
<tr>
<td></td>
<td>Dental Hygiene</td>
</tr>
<tr>
<td></td>
<td>Health Care</td>
</tr>
<tr>
<td></td>
<td>Medical Coding and Billing</td>
</tr>
<tr>
<td></td>
<td>Occupational Therapy</td>
</tr>
<tr>
<td></td>
<td>Pharmacy Technician</td>
</tr>
<tr>
<td></td>
<td>Physical Therapy</td>
</tr>
<tr>
<td></td>
<td>Radiology Technology</td>
</tr>
<tr>
<td></td>
<td>Public Service Technologies</td>
</tr>
<tr>
<td></td>
<td>Criminal Justice</td>
</tr>
<tr>
<td></td>
<td>Firefighting</td>
</tr>
<tr>
<td></td>
<td>Paralegal</td>
</tr>
</tbody>
</table>
TM Emphasis in Integrated Technology

CAREERS

Exercise Science
- Physical Therapy
- Physician's Assistant
- Occupational Therapist
- Respiratory Therapist
- Sports Nutritionist
- Strength and Conditioning Specialist
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- Chiropractic Specialist
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- Facility Manager
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- Program management
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- Recreational center management
- Administration
- Recreational Retailing
- Camp Director
- Recreation Leader
- Recreation Therapist
- Adventure/Risk Trainer
- Recreation Specialist
- Prison Recreation Specialist
- Product Representative

Technology Management, B.S.

REQUIREMENTS

The Bachelor of Science in Technology Management has a multidisciplinary focus and is designed for students who want to develop leadership and management skills within their technical area or combination of related areas. Students may enter the program with (1) an Associate in Applied Science degree in an approved technical area, (2) an Associate of Science degree containing at least 45 credit hours in an approved technical specialty, or (3) an approved technical specialty containing courses from related areas. Students have the options of earning a Six-Sigma Green Belt certification, completing Center for Advancement in Leadership certification, and preparing for Project Management Institute (PMI) exams.

Total Program Credits: 123

Matriculation Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students must complete 45 technical credits (see list below)</td>
<td>45</td>
</tr>
<tr>
<td>1. See specific Technical Area for the 45 credit requirement. Or See Technology Management Emphasis in Integrated Technology</td>
<td></td>
</tr>
</tbody>
</table>

General Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
</tbody>
</table>
Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 205</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>PES 1097 Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>TECH 2000</td>
<td>Technology and Human Life</td>
<td>3</td>
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</table>

Discipline Core Requirements: 28 Credits

Meet with Technology Management advisor to complete a degree plan prior to enrollment in Technology Management courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 3000</td>
<td>Introduction to Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3010</td>
<td>Creativity Innovation and Change Management</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MGMT 3170 Entrepreneurship (3.0)</td>
<td></td>
</tr>
<tr>
<td>TECH 3400</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3850</td>
<td>Quality Assurance in Technology</td>
<td>3</td>
</tr>
<tr>
<td>TECH 405G</td>
<td>Global Ethical and Professional Issues in Technology</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4420</td>
<td>Organization Information Technologies</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4910</td>
<td>Senior Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td>ACC 3000</td>
<td>Financial Managerial and Cost Accounting Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3430</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>TECH 301R</td>
<td>Technology Lecture Series</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>INFO 2100 Computer Proficiency for Technology Professionals (3.0)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>IM 2010 Business Computer Proficiency (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Elective Requirements: 15 Credits

Complete 15 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 3700</td>
<td>Materials Management (3.0)</td>
<td></td>
</tr>
<tr>
<td>TECH 4000</td>
<td>Reliability Engineering and Safety (3.0)</td>
<td></td>
</tr>
<tr>
<td>TECH 4200</td>
<td>Technology Marketing and Distribution (3.0)</td>
<td></td>
</tr>
<tr>
<td>TECH 4400</td>
<td>Advanced Project Management (3.0)</td>
<td></td>
</tr>
<tr>
<td>TECH 4820</td>
<td>Current Topics in Technology Management (3.0)</td>
<td></td>
</tr>
<tr>
<td>TECH 481R</td>
<td>Internship (1.0)</td>
<td></td>
</tr>
<tr>
<td>TECH 489R</td>
<td>Undergraduate Research in Technology Management (1.0)</td>
<td></td>
</tr>
<tr>
<td>TECH 497R</td>
<td>Independent Study (1.0)</td>
<td></td>
</tr>
<tr>
<td>LEGL 3000</td>
<td>Business Law (3.0)</td>
<td></td>
</tr>
<tr>
<td>ENGL 3300</td>
<td>Collaborative Communication for Technology Professionals (3.0)</td>
<td></td>
</tr>
<tr>
<td>MGMT 3470</td>
<td>Lean Management Systems (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Up to 6 credits toward Leadership Certification with the Center for the Advancement of Leadership

Students may select up to 9 credits of other upper division technology related courses with advisor approval.

Graduation Requirements:

1. Completion of a minimum of 123 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. No grade lower than a C- in any TECH course.
4. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Note: No upper-division Technology Management (i.e., Technology Management or Business Management) course work older than six years can be counted toward graduation.

Technology Management, B.S. Careers

Technology Management, B.S. Careers

Related Careers

- Computer and Information Systems Managers
- Industrial Production Managers
- Construction Managers
- Logisticians
- Business Teachers, Postsecondary
- First-Line Supervisors of Mechanics, Installers, and Repairers
- First-Line Supervisors of Production and Operating Workers
Theatrical Arts for Stage and Screen

Name: Theatrical Arts for Stage & Screen
Location: FA 707
Telephone: 801-863-8071
Email: kinglo@uvu.edu
Web Address: uvu.edu/theatre/
Chair: Christopher Clark
Chair UVU Email: clarkch@uvu.edu

Mission Statement
UVU Theatre is THE destination for theatre in Utah for both audiences and students. Every member of our community is touched by our work, whether through our main stage productions, our theatre for children and youth, through the influence of our teachers, and by contact with our students. Through our classes, programs, and productions, we are interwoven into the tapestry of our connecting communities to the extent we are an acknowledged "cultural treasure."

Theatrical Arts for Stage & Screen

Program Coordinator Contact:
- Christopher Clark, Performance
  - Telephone: 801-863-8345
  - Email: clarkch@uvu.edu
- Stephen Purdy, Design and Technology
  - Telephone: 801-863-7281
  - Email: purdyst@uvu.edu
- John Newman, Theatre for Children and Youth
  - Telephone: 801-863-5079
  - Email: john.newman@uvu.edu
- D. Terry Petrie, Theatre Secondary Education
  - Telephone: 801-863-7222
  - Email: petriedt@uvu.edu

Advisor:
- Brianna Larson
  - Telephone: 801-863-6867
  - Email: brianna.larson@uvu.edu

Administrative Support:
- Loretta King
  - Telephone: 801-863-6939
  - Email: kinglo@uvu.edu
  - Mail Stop: 234

Staff:
Program Director, Noorda Theatre Center for Children and Youth: John Newman
Outreach Coordinator, Noorda Theatre Center for Children and Youth: Kynsie Kiggens
Production and Media Coordinator, Noorda Theatre Center for Children and Youth: Isaac Walters
Foreman, Scene Shop: Don Parker
Supervisor, Costume Shop: Carla Summers

DEPARTMENT CHAIR
CLARK, Christopher Associate Professor

FACULTY
ARRINGTON, James Associate Professor
BEEENE, Lara A. Lecturer
CLARK, Christopher Associate Professor
HAGEN, Lisa Assistant Professor
HARROP-PURSER, Laurie Assistant Professor
MOFFAT, Robert Lecturer
MOODY, Richard L. Assistant Professor
NEWMAN, John Assistant Professor
PETRIE, Terry Professor
PURDY, Stephen Lecturer
ROBINSON, Jill Lecturer

Course Descriptions
Fine Arts Music and Theatre................................................................. 637
Theatre................................................................................................ 735

Degrees & Programs
Theatre Arts, A.A.

Requirements
The AA and AS in Theatre Arts provide students with basic training in theatre arts. The department offers associate degree students beginning courses in acting, stagecraft, script and text analysis, theatre for children and youth, theatrical design, and directing.

Total Program Credits: 63

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (recommended for Humanities or Arts majors)</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (recommended for Social Science majors)</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (recommended for Business, Education, Science, and Health Professions majors)</td>
</tr>
</tbody>
</table>

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700</td>
<td>US History to 1877</td>
</tr>
<tr>
<td>or HIST 2710</td>
<td>US History since 1877</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History</td>
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<td>American Heritage</td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government</td>
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Complete the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
<td>2</td>
</tr>
</tbody>
</table>
Theatrical Arts for Stage and Screen

Distribution Courses:
- Biology - Choose from Distribution List 3
- Physical Science - Choose from Distribution List 3
- Additional Biology or Physical Science - Choose from Distribution List 3
- Humanities - Choose from Distribution List 3
- THEA 1013 Introduction to Theatre (3.0) 3
- Social/Behavioral Science - Choose from Distribution List 3

Discipline Core Requirements: 20 Credits

Complete the following:
- THEA 1033 Acting I (3.0) 3
- THEA 1513 Stagecraft I (3.0) 3
- THEA 1514 Stagecraft I Lab (1.0) 1
- THEA 1713 Script and Text Analysis I (3.0) 3
- THEA 2211 Theatre for Children and Youth I (3.0) 3
- THEA 2513 Introduction to Design for Stage and Screen (3.0) 3
- THEA 2514 Introduction to Design for Stage and Screen Lab (1.0) 1
- THEA 3611 Directing Actors for the Stage I (3.0) 3

Elective Requirements: 8 Credits
- Two courses in the same foreign language 8

Graduation Requirements:
1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.5 (C+) or above. (Departments may require a higher GPA.)
3. Residency hours - minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Theatre Arts, A.A.

Careers
The AA and AS degrees in Theatre Arts provide students with skills needed for many professional entry level positions. Associate degrees in Theatre Arts develop interpersonal communication, the ability to work effectively in groups, the capability of solving problems, and the creative thinking that employers are demanding.

Related Careers
- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

Theatre Arts, A.S.

Requirements
The AA and AS in Theatre Arts provide students with basic training in theatre arts. The department offers associate degree students beginning courses in acting, stagecraft, script and text analysis, theatre for children and youth, theatrical design, and directing.

Total Program Credits: 63

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.5 (C+) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

**Theatre Arts, A.S.**

**Careers**

The AA and AS degrees in Theatre Arts provide students with skills needed for many professional entry level positions. Associate degrees in Theatre Arts develop interpersonal communication, the ability to work effectively in groups, the capability of solving problems, and the creative thinking that employers are demanding.

**Related Careers**

- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

**Theatre for Children and Youth, A.A.S.**

**Requirements**

The purpose of the AAS degree in Theatre for Children and Youth is to train versatile theatre artists to teach theatre and drama in community and after-school settings; to serve as teaching artists in schools; to create and manage companies and groups that present theatre productions in the schools; and to direct, act, write, and design plays for and with young people. Students will graduate from the program with demonstrated skills in acting, script analysis, stagecraft, devised theatre, scriptwriting, creative drama, and directing with an understanding and working knowledge of child and adolescent development and the state drama core curriculum.

**Total Program Credits: 63**

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>17 Credits</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 1010</td>
<td>Intermediate Algebra (4.0)</td>
<td></td>
</tr>
<tr>
<td>or ACC 1150</td>
<td>Fundamentals of Business Math</td>
<td>3</td>
</tr>
</tbody>
</table>

**or Any approved Social or Behavioral Science course from Distribution List**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 1100</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Personal Health and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>THEA 1013</td>
<td>Introduction to Theatre</td>
<td>3</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>36 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 1033</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 1513</td>
<td>Stagecraft I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 1514</td>
<td>Stagecraft I Lab</td>
<td>1</td>
</tr>
<tr>
<td>THEA 159R</td>
<td>Production Practicum for Stage and Screen I (must be taken twice)</td>
<td>2</td>
</tr>
<tr>
<td>THEA 1713</td>
<td>Script and Text Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2200</td>
<td>Theatre and Drama in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2211</td>
<td>Theatre for Children and Youth I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 222R</td>
<td>Theater for Young Audiences Tour</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2231</td>
<td>Creative Drama I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2513</td>
<td>Introduction to Design for Stage and Screen</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2514</td>
<td>Introduction to Design for Stage and Screen Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

**THEA 2514** Introduction to Design for Stage and Screen Lab 1

3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

**Graduation Requirements:**

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours-- minimum of 20 credit hours through course completion at UVU.
4. Completion of GE and specified departmental requirements.
5. Approval of submitted Portfolio.

**Theatre for Children and Youth, A.A.S.**

**Careers**

In Utah County, more than a dozen semi-professional and community theatres employ individuals to teach and present theatre to children and youth. In addition, most Utah County cities have arts councils that support seasonal and year-round theatre opportunities for children, youth, and families. The UVU Theatrical Arts for Stage and Screen department not only helps students get hired for existing jobs in theatre organizations serving young people, but also cultivates an entrepreneurial ability that has led its students and recent graduates to create new companies that serve this population. These new companies include Resonance Story Theatre and the Grassroots Shakespeare Company. Graduates of UVU’s AAS in Theatre for Children and Youth would be prepared to create similar companies to meet the growing demand for performances in Utah County elementary schools.

**Graduation Requirements:**

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours-- minimum of 20 credit hours through course completion at UVU.
4. Completion of GE and specified departmental requirements.
5. Approval of submitted Portfolio.

**Theatre Arts, Minor**

**Requirements**

The minor in Theatre Arts serves as a supplement to students from all other disciplines to pursue their interest and cultivate their talents in theatre while pursuing a major in a high-demand field. It also helps secondary education majors in other subject areas to qualify students for a teaching endorsement in theatre. English teaching majors frequently complete a minor in theatre to enrich their teaching of plays and to help prepare them to qualify for an additional subject endorsement in theatre.

**Total Program Credits: 23**

**Matriculation Requirements:**

1. Admitted to a bachelor degree program at UVU.

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>36 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 1033</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 1513</td>
<td>Stagecraft I</td>
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<tr>
<td>THEA 1514</td>
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<tr>
<td>THEA 159R</td>
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<td>THEA 2200</td>
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<td>THEA 2231</td>
<td>Creative Drama I</td>
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</tr>
<tr>
<td>THEA 2513</td>
<td>Introduction to Design for Stage and Screen</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2514</td>
<td>Introduction to Design for Stage and Screen Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

**THEA 2514** Introduction to Design for Stage and Screen Lab 1

**THEA 281R** Theatre Internship (must be taken twice) 2

**Graduation Requirements:**

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours-- minimum of 20 credit hours through course completion at UVU.
4. Completion of GE and specified departmental requirements.
5. Approval of submitted Portfolio.
1. Complete all theatre courses with a grade of C- or better.

**Theatre Arts, Minor**

**Careers**

Employers and graduate programs value minors in the arts including theatre. A minor in theatre suggests that the recipient is well-rounded in his or her training and has acquired skills in communications and human relations. It also allows majors in other fields to gain the necessary skills to pursue a serious avocation in theatre.

**Related Careers**

- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

**Theatre Arts - Acting Emphasis, B.F.A.**

**Requirements**

In the Bachelor of Fine Arts program, Acting students receive extensive training in acting, voice, movement, and auditioning, while Musical Theatre students receive extensive training in movement, dance, and vocal and singing technique, as well as acting. Theatre Design and Production students receive extensive design in conceptualization, stage management, costuming, lighting, makeup, scenic design, and rendering.

**Total Program Credits: 126**

**Matriculation Requirements:**

1. Admission is competitive and based on successful evaluation of student's performance audition or production portfolio in the January prior to the student beginning Freshman classes in the Fall.
2. Cumulative G.P.A. of 3.00 or higher

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Complete one of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
<td></td>
</tr>
</tbody>
</table>

**Complete one of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
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</tr>
<tr>
<td>POLS 1000</td>
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**Complete the following:**

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<tr>
<th>Course</th>
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<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
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<tr>
<td>HILTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
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<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
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**Distribution Courses:**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Biology</td>
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<td>Physical Science</td>
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**Discipline Core Requirements:**

29 Credits

<table>
<thead>
<tr>
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<tr>
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<tr>
<td>THEA 1223</td>
<td>Makeup I</td>
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<td>Stagecraft I</td>
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<td>THEA 1514</td>
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<tr>
<td>THEA 159R</td>
<td>Production Practicum for Stage and Screen I</td>
<td>1</td>
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<td>THEA 1713</td>
<td>Script and Text Analysis I</td>
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<td>THEA 2711</td>
<td>BFA Cohort Seminar</td>
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<td>THEA 3611</td>
<td>Directing Actors for the Stage I</td>
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<td>THEA 3711</td>
<td>Script and Text Analysis II</td>
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<td>THEA 3721</td>
<td>Theatre History and Literature I</td>
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<td>Theatre History and Literature II</td>
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**Emphasis Requirements:**

62 Credits

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<tr>
<td>THEA 1113</td>
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<td>THEA 2131</td>
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<td>THEA 2156</td>
<td>Group Voice for Theatre</td>
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<td>THEA 3113</td>
<td>Acting for Film</td>
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<td>THEA 3115</td>
<td>Improvisation</td>
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<td>THEA 3117</td>
<td>Auditioning I</td>
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<tr>
<td>THEA 3122</td>
<td>Voice and Diction II</td>
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<td>THEA 3123</td>
<td>Stage Dialects</td>
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<tr>
<td>THEA 3133</td>
<td>Stage Combat</td>
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<td>THEA 3154</td>
<td>Dance for Musical Theatre I</td>
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<tr>
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<td>Musical Theatre Practicum (No more than 2 credits of 315R will be applied to degree) (2.0)</td>
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<td>or THEA 319R</td>
<td>Performance Practicum for Stage and Screen (1.0)</td>
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<td>THEA 4115</td>
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<td>THEA 4119</td>
<td>Senior Showcase and Career Management</td>
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<tr>
<td>THEA 4122</td>
<td>Vocal Approach to the Classics</td>
<td>3</td>
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</table>

**Graduation Requirements:**

1. Completion of a minimum of 126 semester credits; a minimum of 40 credits must be upper division.
2. Overall grade point average of 3.0 or higher.
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.
Matriculation Requirements:

1. Admission is competitive and based on successful evaluation of student’s performance audition or production portfolio in the January prior to the student beginning Freshman classes in the Fall.
2. Cumulative G.P.A. of 3.00 or higher

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing
- 3

or
- ENGL 2010 Intermediate Writing–Humanities/Social Sciences
- 3

Complete one of the following:
- MATH 1030 Quantitative Reasoning
- 3

or
- MATH 1040 Introduction to Statistics
- 3

Complete one of the following:
- MATH 1050 College Algebra
- 4

Complete the following:
- PHIL 2050 Ethics and Values
- 3

or
- PES 1097 Fitness for Life
- 2

Distribution Courses:
- Biology
- 3

or
- Additional Biology or Physical Science
- 3

Complete the following:
- HUM 1010 Humanities Through the Arts
- 3

or
- THEA 1013 Introduction to Theatre (Majors only section)
- 3

Social/Behavioral Science
- 3

Discipline Core Requirements: 29 Credits
- THEA 1033 Acting I
- 3

THEA 1223 Makeup I
- 3

THEA 1513 Stagecraft I
- 3

THEA 1514 Stagecraft I Lab
- 1

THEA 159R Production Practicum for Stage and Screen I
- 1

THEA 2710 US History since 1877
- 3

THEA 2711 US History to 1877
- 3

THEA 3611 Directing Actors for the Stage I
- 3

THEA 481R Theatre Internship
- 2

Complete one of the following:
- PHIL 2050 Ethics and Values
- 3

HIST 1700 American Civilization
- 3

HIST 1740 US Economic History
- 3

HIST 2700 US History to 1877
- 3

POLS 1000 American Heritage
- 3

Complete one of the following:
- PES 1097 Fitness for Life
- 2

Theatre Arts - Acting Emphasis, B.F.A.

**Careers**

Jobs traditionally associated with theatre include acting, directing, producing, script writing, theatre design (lights, scenery, sound, costumes and makeup), theatre technology, theatre education, dramaturgy, stage and production management, theatrical agents, theatre critics, and theatre managers. Additionally, graduates, particularly those with education in technical areas, frequently find work in the related areas of broadcasting, motion pictures, and television.

**Related Careers**

- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

**Theatre Arts - Musical Theatre, B.F.A.**

**Requirements**

In the Bachelor of Fine Arts program, Acting students receive extensive training in acting, voice, movement, and auditioning, while Musical Theatre students receive extensive training in movement, dance, and vocal and singing technique, as well as acting. Theatre Design and Production students receive extensive design in conceptualization, stage management, costuming, lighting, makeup, scenic design, and rendering.

**Total Program Credits: 126**
## Theatrical Arts for Stage and Screen

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>THEA 111</td>
<td>Voice and Diction I</td>
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</tr>
<tr>
<td>THEA 2033</td>
<td>Acting II</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2131</td>
<td>Movement for the Actor I</td>
<td>3</td>
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<tr>
<td>THEA 2156</td>
<td>Group Voice for Theatre</td>
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<tr>
<td>THEA 284R</td>
<td>Singing Technique for Actors I (must be repeated for 3 credits)</td>
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<td>THEA 3112</td>
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<td>THEA 3115</td>
<td>Improvisation</td>
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<td>THEA 3117</td>
<td>Auditioning I</td>
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<td>THEA 3131</td>
<td>Movement for the Actor II</td>
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<td>THEA 3154</td>
<td>Dance for Musical Theatre I</td>
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<td>THEA 3155</td>
<td>Dance for Musical Theatre II</td>
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<tr>
<td>THEA 315R</td>
<td>Musical Theatre Practicum (must be repeated for 4 credits)</td>
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<td>THEA 319R</td>
<td>Performance Practicum for Stage and Screen (must be repeated for 4 credits)</td>
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<td>THEA 3725</td>
<td>Musical Theatre History</td>
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<td>THEA 4117</td>
<td>Auditioning II</td>
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<tr>
<td>THEA 4119</td>
<td>Senior Showcase and Career Management</td>
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<tr>
<td>THEA 484R</td>
<td>Singing Techniques for Actors II (must be repeated for 4 credits)</td>
<td>1.0</td>
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</table>

### Graduation Requirements:

1. Completion of a minimum of 126 semester credits; a minimum of 40 credits must be upper division.
2. Overall grade point average of 3.0 or higher.
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

### Matriculation Requirements:

1. Admission is competitive and based on successful evaluation of student’s performance audition or production portfolio in the January prior to the student beginning Freshman classes in the Fall.
2. Cumulative G.P.A. of 3.0 or higher.

### General Education Requirements:

- **Intermediate Writing—Humanities/Social Sciences**
  - ENGL 1010 Introduction to Writing
  - ENGL 2010 Intermediate Writing—Humanities/Social Sciences

- **Intermediate Writing—Science and Technology**
  - 3 Credits

- **Quantitative Reasoning**
  - MATH 1040 Introduction to Statistics
  - MATH 1050 College Algebra

- Complete one of the following:
  - HIST 1700 American Civilization
  - HIST 1740 US Economic History
  - HIST 2700 US History to 1877
  - HIST 2710 US History since 1877
  - POLS 1000 American Heritage

- Complete the following:
  - PHIL 2000 Ethics and Values
  - HLTH 1100 Personal Health and Wellness
  - OR
  - PES 1097 Fitness for Life
  - Introduction to Statistics (3.0)
  - College Algebra (4.0)
  - Complete one of the following:
    - HIST 1700 American Civilization (3.0)
    - HIST 1740 US Economic History (3.0)
    - HIST 2700 US History to 1877 (3.0)
    - HIST 2710 US History since 1877 (3.0)

## Theatre Arts - Musical Theatre, B.F.A.

### Careers

Jobs traditionally associated with theatre include acting, directing, producing, script writing, theatre design (lights, scenery, sound, costumes and makeup), theatre technology, theatre education, dramaturgy, stage and production management, theatrical agents, theatre critics, and theatre managers. Additionally, graduates, particularly those with education in technical areas, frequently find work in the related areas of broadcasting, motion pictures, and television.

### Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

## Theatre Arts - Theatre Design and Production Emphasis, B.F.A.

### Requirements

In the Bachelor of Fine Arts program, Acting students receive extensive training in acting, voice, movement, and auditioning, while Musical Theatre students receive extensive training in movement, dance, and vocal and singing technique, as well as acting. Theatre Design and Production students receive extensive design in conceptualization, stage management, costuming, lighting, makeup, scenic design, and rendering.

### Total Program Credits: 126

### Matriculation Requirements:

1. Admission is competitive and based on successful evaluation of student’s performance audition or production portfolio in the January prior to the student beginning Freshman classes in the Fall.
2. Cumulative G.P.A. of 3.0 or higher

### General Education Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
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<tr>
<td>ENGL 2010 Intermediate Writing—Humanities/Social Sciences</td>
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<tr>
<td>or ENGL 2020 Intermediate Writing—Science and Technology (3.0)</td>
<td>3</td>
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</tbody>
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Complete one of the following:

- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following:

- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
### Complete the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
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<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
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<td>or PES 1097</td>
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#### Distribution Courses:

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<td>Physical Science</td>
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<td>Additional Biology or Physical Science</td>
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<tr>
<td>HUM 1010</td>
<td>Humanities Through the Arts</td>
<td>3</td>
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<tr>
<td>THEA 1013</td>
<td>Introduction to Theatre (Majors only section)</td>
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<td></td>
<td>Social/Behavioral Science</td>
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#### Discipline Core Requirements:

- 29 Credits
  - THEA 1033 Acting I: 3
  - THEA 1223 Makeup I: 3
  - THEA 1513 Stagecraft I: 3
  - THEA 1514 Stagecraft I Lab: 1
  - THEA 159R Production Practicum for Stage and Screen I: 1
  - THEA 1713 Script and Text Analysis I: 3
  - THEA 2711 BFA Cohort Seminar: 1
  - THEA 3611 Directing Actors for the Stage I: 3
  - THEA 3711 Script and Text Analysis II: 3
  - THEA 3721 Theatre History and Literature I: 3
  - THEA 3722 Theatre History and Literature II: 3
  - THEA 481R Theatre Internship: 2

#### Emphasis Requirements:

- 47 Credits
  - ART 1020 Basic Drawing for Non-Majors: 3
  - ART 1650 Watermedia I: 3
  - ARTH 2720 History of Art from the Renaissance: 3
  - THEA 2203 Costume Construction I: 3
  - THEA 2204 Costume Construction I Lab: 1
  - THEA 2513 Introduction to Design for Stage and Screen: 3
  - THEA 2514 Introduction to Design for Stage and Screen Lab: 1
  - THEA 2515 Rendering for Theatre: 3
  - THEA 2517 Visual Concepts in Theatre: 3
  - THEA 259R Production Practicum for Stage and Screen II: 1
  - THEA 3241 Storytelling: 3
  - THEA 3514 Period Styles for Theatre Design: 3
  - THEA 359R Production Practicum for Stage and Screen III: 1
  - THEA 4531 Lighting Design I: 3
  - THEA 4534 Lighting Design I Lab: 1
  - THEA 4541 Costume Design I: 3
  - THEA 4544 Costume Design I Lab: 1
  - THEA 4571 Scenic Design I: 3
  - THEA 4574 Scenic Design I Lab: 1
  - THEA 4981 Portfolio: 1
  - THEA 4993 Senior Project: 3

#### Emphasis Elective Requirements:

- 15 Credits
  - Complete 3 credits from the following:
    - PHIL 3800 Aesthetics (3.0)
    - or HUM 3800 Aesthetics (3.0)
    - THEA 3251 Puppetry and Mask (3.0)
    - THEA 3625 Fundraising for the Arts (3.0)
    - THEA 4543 Costume Construction III (3.0)
    - THEA 457R Practical Design (1.0)
    - THEA 4621 Theatre Administration (3.0)

- Complete 12 credits from the following:

#### COSTUME TRACK

- THEA 2513 Costume History (3.0)
- THEA 3223 Makeup II (3.0)
- THEA 3542 Costume Construction II (3.0)
- THEA 4542 Costume Design II (3.0)

#### SCENERY TRACK

- THEA 3563 Art Direction for Film (3.0)
- THEA 3511 Stagecraft II (3.0)
- THEA 3573 Scenic Painting (3.0)
- THEA 4572 Scenic Design II (3.0)

#### LIGHTING TRACK

- THEA 3563 Art Direction for Film (3.0)
- THEA 3521 Sound Design I (3.0)
- THEA 4535 Multimedia Design for Stage (3.0)
- THEA 4532 Lighting Design II (3.0)

#### TECHNICAL DIRECTION TRACK

- THEA 3511 Stagecraft II (3.0)
- THEA 3521 Sound Design I (3.0)
- THEA 3565 Technical Direction for the Stage (3.0)
- THEA 3566 Technical Direction for the Stage Lab (1.0)
- THEA 3574 Drafting for Theatre Design (3.0)

#### STAGE MANAGEMENT TRACK

- THEA 3521 Sound Design I (3.0)
- THEA 3561 Stage Management I (3.0)
- THEA 3625 Fundraising for the Arts (3.0)
- THEA 4561 Stage Management II (3.0)

#### Graduation Requirements:

1. Completion of a minimum of 126 semester credits; a minimum of 40 credits must be upper division.
2. Overall grade point average of 3.0 or higher.
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

#### Matriculation Requirements:

- 1. Completion of a minimum of 126 semester credits; a minimum of 40 credits must be upper division.
- 2. Overall grade point average of 3.0 or higher.
- 3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
- 4. Completion of GE and specified departmental requirements.
- 5. Successful completion of at least one Global/Intercultural course.
Theatrical Arts for Stage and Screen

1. Admission is competitive and based on successful evaluation of student's performance audition or production portfolio in the January prior to the student beginning Freshman classes in the Fall.
2. Cumulative G.P.A. of 3.00 or higher

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
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<td>ENGL 2010 Intermediate Writing–Humanities/Social Sciences</td>
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<td>MATH 1050 College Algebra</td>
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<td>HIST 1700 American Civilization</td>
<td>3</td>
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<td>TRX 1722 Theatre History and Literature</td>
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Emphasis Requirements: 47 Credits

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<tr>
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<td>THEA 1513 Stagecraft I</td>
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<td>THEA 1514 Stagecraft I Lab</td>
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<tr>
<td>THEA 159R Production Practicum for Stage and Screen</td>
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<td>THEA 2711 Fundraising for the Arts</td>
<td>3</td>
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<td>THEA 3514 Period Styles for Theatre Design</td>
<td>3</td>
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<td>THEA 3539 Lighting Design I</td>
<td>3</td>
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<td>THEA 3541 Costume Design I</td>
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Distribution Courses: 36 Credits

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<tr>
<td>THEA 159R Production Practicum for Stage and Screen</td>
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<tr>
<td>THEA 1013 Introduction to Theatre</td>
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<td>THEA 1514 Stagecraft I Lab</td>
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<td>THEA 3513 Introduction to Theatre</td>
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<td>THEA 3539 Lighting Design I</td>
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<tr>
<td>THEA 4534 Costume Design I Lab</td>
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<tr>
<td>THEA 4573 Scenic Design I</td>
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<tr>
<td>THEA 4574 Scenic Design I Lab</td>
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<td>THEA 4981 Portfolio</td>
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<tr>
<td>THEA 4993 Senior Project</td>
<td>3</td>
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</tbody>
</table>

Total Program Credits: 120

Theatre Arts Education, B.S.

Requirements

The BS in Theatre Arts Education prepares and certifies students to teach and direct theatre in public, private, and charter schools. Student in the program take courses in acting, directing, stagecraft, theatrical design, script and text analysis, directing, and theatre teaching. Those seeking the BS in Theatre Arts Education also take courses from the School of Education in pedagogy, curriculum, classroom management, and child and adolescent development. The program includes mentored student teaching and qualifies students for a professional educator license.

Matriculation Requirements:

1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.
3. Completion of all General Education requirements and the majority of content area courses.
4. Pass group interview directed by the Secondary Teacher Education Department
5. Pass LiveScan Criminal Background Check

General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
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</tr>
<tr>
<td>ENGL 2010 Intermediate Writing–Humanities/Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700 American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700 US History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000 American Heritage</td>
<td>3</td>
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<tr>
<td>POLS 1100 American National Government</td>
<td>3</td>
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<tr>
<td>TRX 1722 Theatre History and Literature</td>
<td>3</td>
</tr>
<tr>
<td>TRX 4610 Theatre Internship</td>
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Distribution Courses: 36 Credits

<table>
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<th>Course Title</th>
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<tbody>
<tr>
<td>Biology</td>
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<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
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<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>THEA 1013 Introduction to Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEA 1514 Stagecraft I Lab</td>
<td>1</td>
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<tr>
<td>THEA 359R Production Practicum for Stage and Screen</td>
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Discipline Core Requirements: 79 Credits

<table>
<thead>
<tr>
<th>Course Title</th>
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<tr>
<td>THEA 1033 Acting I</td>
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<tr>
<td>THEA 1513 Stagecraft I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 159R Production Practicum for Stage and Screen</td>
<td>2</td>
</tr>
</tbody>
</table>

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

Jobs traditionally associated with theatre include acting, directing, producing, script writing, theatre design (lights, scenery, sound, costumes and makeup), theatre technology, theatre education, dramaturgy, stage and production management, theatrical agents, theatre critics, and theatre managers. Additionally, graduates, particularly those with education in technical areas, frequently find work in the related areas of broadcasting, motion pictures, and television.
Theatre Arts, B.A.

Requirements

The recently revised BA in Theatre focuses theatre majors’ work in a module (12 credits) in Performance, in Production, and a given specialty. The revised BA in Theatre Arts offers students a broader-based program that better reflects the liberal arts paradigm of BA degrees. It provides students with a higher level of choice than does a BFA program while ensuring that students graduate with three specific skill sets.

Total Program Credits: 120

General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
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<tr>
<td>ENGL 1040</td>
<td>Introduction to Statistics</td>
<td>3</td>
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<tr>
<td>ENGL 1050</td>
<td>College Algebra</td>
<td>4</td>
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<td>HIST 1700</td>
<td>American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2700</td>
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<td>HIST 1740</td>
<td>US Economic History</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage</td>
<td>3</td>
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<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness</td>
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</tr>
<tr>
<td>PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
</tbody>
</table>

Distribution Courses:

- Biology
- 3 Credits
- Physical Science
- 3 Credits
- Additional Biology or Physical Science
- 3 Credits
- Humanities Distribution (202G/2020 foreign language course)
- 4 Credits
- THEA 1013 Introduction to Theatre
- 3 Credits
- Social/Behavioral Science
- 3 Credits

Discipline Core Requirements: 66 Credits

THEATRE ARTS CORE COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 1033</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 1513</td>
<td>Stagecraft I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 1514</td>
<td>Stagecraft I Lab</td>
<td>1</td>
</tr>
<tr>
<td>THEA 1713</td>
<td>Script and Text Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2211</td>
<td>Theatre for Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2513</td>
<td>Introduction to Design for Stage and Screen</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2514</td>
<td>Introduction to Design for Stage and Screen Lab</td>
<td>1</td>
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<tr>
<td>THEA 3511</td>
<td>Stagecraft II</td>
<td>3</td>
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<tr>
<td>THEA 3561</td>
<td>Stage Management I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 359R</td>
<td>Production Practicum for Stage and Screen II</td>
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<td>THEA 3611</td>
<td>Directing Actors for the Stage I</td>
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<tr>
<td>THEA 3612</td>
<td>Directing Actors for the Stage II</td>
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<td>THEA 3721</td>
<td>Theatre History and Literature</td>
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<td>THEA 3722</td>
<td>Theatre History and Literature II</td>
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<td>THEA 4200</td>
<td>Theatre and Drama in the Secondary School</td>
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<td>EDSC 3000</td>
<td>Educational Psychology</td>
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<td>EDSC 3050</td>
<td>Foundations of American Education</td>
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<td>EDSC 3250</td>
<td>Instructional Media</td>
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<td>EDSC 4200</td>
<td>Classroom Management I</td>
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<td>EDSC 4250</td>
<td>Classroom Management II</td>
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<td>EDSC 4440</td>
<td>Content Area Literacies</td>
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<tr>
<td>EDSC 4450</td>
<td>Multicultural Instruction ESL</td>
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<tr>
<td>EDSC 4550</td>
<td>Secondary Curriculum Instruction and Assessment</td>
<td>2</td>
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<tr>
<td>EDSC 4850</td>
<td>Student Teaching--Secondary</td>
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<tr>
<td>EDSP 3400</td>
<td>Exceptional Students</td>
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<td>THEA 1713</td>
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<tr>
<td>THEA 2033</td>
<td>Acting II</td>
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<td>THEA 2513</td>
<td>Introduction to Design for Stage and Screen Lab</td>
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<tr>
<td>THEA 2514</td>
<td>Introduction to Design for Stage and Screen</td>
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<tr>
<td>THEA 3511</td>
<td>Stagecraft II</td>
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</tr>
<tr>
<td>THEA 3561</td>
<td>Stage Management I</td>
<td>3</td>
</tr>
</tbody>
</table>

Theatre Arts Education, B.S.

Careers:

The BS in Theatre Arts Education prepares students for careers as middle and high school educators. Such positions require effective classroom teaching as well as the ability to direct, produce, and manage in-class and after-school productions. Secondary school teaching positions is often the most practical career choice in the area of Theatre Arts, including regular salary and benefits. It also enables graduates to select and run their own production companies with their own performance facilities and production resources.

Related Careers

- Education Teachers, Postsecondary
- Art, Drama, and Music Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>THEA 3611</td>
<td>Directing Actors for the Stage I</td>
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<tr>
<td>THEA 3721</td>
<td>Theatre History and Literature I</td>
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<tr>
<td>THEA 3722</td>
<td>Theatre History and Literature II</td>
<td>3</td>
</tr>
<tr>
<td>THEA 4981</td>
<td>Portfolio</td>
<td>1</td>
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</tbody>
</table>

**Area of Study A: Performance.** Complete 12 approved credits from the following courses. At least 9 of the 12 credits must be at the 3000 level or above. To ensure a higher level of rigor and focus, students are strongly advised to complete their requirements in the Performance Area of Study in a single module: Directing, Musical Theatre, or Acting. See advisor for the specifics of each module.

**Directing Module Courses**
- THEA 2033 Acting II (3.0)*
- THEA 3612 Directing Actors for the Stage II (3.0)
- THEA 3614 Directing Actors for the Screen (3.0)
- THEA 3725 Musical Theatre History (3.0)
- THEA 4993 Senior Project (3.0)

**Musical Theatre Module Courses**
- THEA 3111 Acting for Musical Theatre I (3.0)*
- THEA 3112 Acting for Musical Theatre II (3.0)
- THEA 315R Musical Theatre Practicum (2.0)
- THEA 3154 Dance for Musical Theatre I (3.0)*
- THEA 3725 Musical Theatre History (3.0)
- THEA 484R Singing Techniques for Actors II (1.0)*

**Acting Module Courses**
- THEA 1113 Voice and Diction I (3.0)
- THEA 2033 Acting II (3.0)*
- THEA 2131 Movement for the Actor I (3.0)
- THEA 3123 Stage Dialects (3.0)
- THEA 3133 Stage Combat (3.0)
- THEA 4115 Acting Styles (3.0)
- THEA 4117 Auditioning II (3.0)

**Area of Study B: Production.** Complete 12 approved credits from the following courses. At least 9 of the 12 credits must be at the 3000 level or above. To ensure a higher level of rigor and focus, students are strongly advised to complete their requirements in the Production Area of Study in a single module: Design or Technical Production. See advisor for the specifics of each module.

**Design Module Courses**
- ART 1110 Drawing I (3.0)
- THEA 1223 Makeup I (3.0)
- THEA 3514 Period Styles for Theatre Design (3.0)
- THEA 3223 Makeup II (3.0)
- THEA 4541 Costume Design I (3.0)*
- THEA 4542 Costume Design II (3.0)
- THEA 4531 Lighting Design I (3.0)
- THEA 4532 Lighting Design II (3.0)
- THEA 4571 Scenic Design I (3.0)
- THEA 4572 Scenic Design II (3.0)
- THEA 457R Practical Design (1.0)

**Technical Production Module Courses**
- THEA 2200 Theatre and Drama in the Elementary School (3.0)
- THEA 222R Theater for Young Audiences Tour (3.0)
- THEA 2741 Scriptwriting I (3.0)
- THEA 3211 Theatre for Children and Youth II (3.0)
- THEA 3241 Storytelling (3.0)
- THEA 3251 Puppetry and Mask (3.0)
- THEA 3731 Dramaturgy REMOVE (3.0)
- THEA 3741 Scriptwriting II (3.0)
- THEA 374R New Script Workshop (3.0)
- THEA 474R New Script Workshop (3.0)
- THEA 2741 Scriptwriting I (3.0)
- ENGL 3060 Visual Rhetoric (3.0)
- ENGL 3820 History of Literary Criticism (3.0)
- HUM 330R Period Studies in Humanities (3.0)
- THEA 3731 Dramaturgy REMOVE (3.0)
- THEA 374R New Script Workshop (3.0)
- THEA 474R New Script Workshop (3.0)
- THEA 2741 Scriptwriting I (3.0)
- ENGL 3060 Visual Rhetoric (3.0)
- ENGL 3820 History of Literary Criticism (3.0)
- HUM 330R Period Studies in Humanities (3.0)
- THEA 3731 Dramaturgy REMOVE (3.0)
- THEA 374R New Script Workshop (3.0)
- THEA 474R New Script Workshop (3.0)
- THEA 1023 Introduction to Film (3.0)
- THEA 2341 Film History I (3.0)
- THEA 2312 Film History II (3.0)
- THEA 3110 Non-Fiction Cinema History (3.0)
- THEA 314G Global Cinema History (3.0)
- THEA 414R Special Topics in Cinema History (3.0)
- THEA 416R Special Topics in Film Studies (3.0)
Theatrical Arts for Stage and Screen

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<th>Course Code</th>
<th>Course Name</th>
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<tr>
<td>ACC 3000</td>
<td>Financial Managerial and Cost Accounting Concepts (3.0)</td>
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<tr>
<td>ENGL 3320</td>
<td>Grant and Proposal Writing (3.0)</td>
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<tr>
<td>MKTG 3600</td>
<td>Principles of Marketing (3.0)</td>
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<td>THEA 3625</td>
<td>Fundraising for the Arts (3.0)</td>
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<td>POLS 420R</td>
<td>Issues and Topics in Political Science - Non-Profit Management (3.0)</td>
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<tr>
<td>THEA 4621</td>
<td>Theatre Administration (3.0)</td>
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</table>

Elective Requirements: 18 Credits

- One Foreign Language (Foreign Language 202G/2020* course fulfills Humanities Distribution) 12
- Any courses 1000 or higher 6

Graduation Requirements:
1. Completion of a minimum of 120 semester credits, 40 of which must be upper division.
2. Overall grade point average of 2.5 (C+) or above.
3. Residency hours - minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Successful completion of at least one Global/Intercultural course.

Footnotes
* Requires additional pre-requisite courses not already included in the degree, but they could fill elective credits.

Theatre Arts, B.A.

Careers

Careers:
The liberal arts BA degree in Theatre Arts is, in many cases, a better preparation for MA/PhD programs in theatre than a BFA degree. The BA cultivates an entrepreneurial ability that has prompted many of our graduates to found and run their own companies. A BA in Theatre or another art form is often regarded favorably by medical, law, and business graduate programs because it demonstrates that the graduate is well rounded and effective in communication and problem solving.

Related Careers
- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other
University Studies

Name: University Studies
Location: LA 210
Telephone: 801-863-6712
Email: acadcounseling@uvu.edu
Web Address: uvu.edu/acc/
Dean: Forrest Williams

Mission Statement

University Studies within University College is students’ connection to success, providing an entry point for individuals from a wide range of backgrounds and supporting them throughout their academic experience.

Vision
Foster learning opportunities and collaborations

Purpose
- Engage students and faculty in learning, scholarship, and creative endeavors
- Encourage exploration, curiosity, and self-discovery
- Challenge with high expectations and new ideas
- Create and strengthen interdisciplinary learning and partnerships
- Support an exceptional and diverse community of learners
- Provide specialized academic experiences
- Meet individual student needs
- Facilitate the achievement of educational goals

University College

University College serves a unique role and mission within Utah Valley University. Based on a national model, the name University College signifies opportunities for student success through curricular and co-curricular offerings, academic services, and innovative programs. University College welcomes students at present levels of achievement and challenges them with higher expectations. The programs and departments of Basic Composition, Student Leadership & Success Studies, Developmental Mathematics, English Language Learning, Academic Counseling Center, and departments of Basic Composition, Student Leadership & Success Studies, Academic Standards, First Year Experience & Student Retention, and Tutoring and developmental programs promote interdisciplinary partnerships as students transition into university academics.

- Dean: Forrest Williams
- Office: LA 210
- Telephone: 801-863-6712
- Email: forrest.williams@uvu.edu

- Administrative Support: Beth Winkler
- Office: LA 210
- Telephone: 801-863-6712
- Email: beth.winkler@uvu.edu

- Associate Dean: Talitha Hudgins
- Office: LA 210a
- Telephone: 801-863-6963
- Email: hudgins@uvu.edu

- Assistant Dean: Jessica Awtrey
- Office: LA 210d
- Telephone: 801-863-6786
- Email: jessica.awtrey@uvu.edu

Degrees Offered
- Associate in Arts
- Associate in Science
- University Studies, BA

- University Studies, BS

Programs
University College values student-centered learning and focuses on assisting students exploring the direction of their academic careers, seeking flexibility in degree choices, or undertaking an enhanced college experience.

Academic Counseling Center

Director: Adam Black
- Office: LC 402
- Telephone: 801-863-8425
- Email: acadcounseling@uvu.edu
- Web Address: uvu.edu/acc

The Academic Counseling Center (ACC) is committed to meeting the career and academic needs of current and future students, faculty, staff, and community members. Our center is an ideal starting point for undecided students, with many working towards their Associate in Science (AS) or Associate in Arts (AA) degree in University Studies, or those pursuing professional programs requiring formal application such as Law and Medical school.

Academic Advising & Counseling

Academic counselors are available to assist students in determining and achieving their educational goals. Counselors are qualified to help students select majors and careers, review prior education, and plan educational programs.

The ACC provides advisement for general education requirements and is the advisement center for those majoring in University Studies. Students are referred to departmental advisors for help in meeting their major requirements. Other services provided include assisting students experiencing academic difficulties and enforcing academic standards.

The ACC also has counselors for students seeking admission into Law School, Medical, Dental, Nursing and many other health occupations.

Referrals are made to help students achieve their educational goals. Some of these include referrals to personnel in the Accessibility Services Center, Student Health Services, Testing Services, University Studies, and to academic departmental advisors.

Career Assessment & Counseling

Our counselors provide a full range of career assessment. These services include:

- Career interest/personality testing
- One-on-one career counseling sessions
- Career workshops
- Occupational information
- Use of UtahFutures career and educational software
- Career resource library
- Vocational evaluation services

Course Descriptions

University Studies................................................................................................742

Degrees & Programs

University Studies, A.A.
Requirements

The University Studies Associate in Arts/Science is designed to provide an opportunity for students who may be potentially exploring their career and major options, or provides flexibility for those that are seeking an Associate that enables transferability or simply completion of a broad variety of curriculum options. The AS/AA UVST enables the ability to begin work toward the General Education requirements while meeting the needs of a broad variety of student circumstances.
Total Program Credits: 60

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)
  or ENGL 2020 Intermediate Writing--Science and Technology 3

Complete one of the following: 3
- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following: 3
- HIST 1700 American Civilization (3.0)
- HIST 2700 US History to 1877 (3.0)
  and HIST 2710 US History since 1877 (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following: 3
- PHIL 2050 Ethics and Values 3
- HLTH 1100 Personal Health and Wellness (2.0)
  or PES 1097 Fitness for Life 2

Distribution Courses:
- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Humanities Distribution 3
- Fine Arts Distribution 3
- Social/Behavioral Science 3

Discipline Core Requirements: 25 Credits
- Any course(s) 1000 or higher 17
- One Language (other than English) to include the 1010 or 1020 levels 8

Graduation Requirements:
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

University Studies, A.A.

Careers:
The AS/AA in University Studies is an Associate’s degree that allows for customization and flexibility in a student’s educational path. While not specifically focused on a particular major of focus, the AS/AA University Studies requires completion of General Education coursework along with 25 credits of electives. These electives allow students to customize their curriculum to their individual needs, explore various major and career opportunities, and utilize credits toward graduation that may span a broad variety of topics. This flexibility lends itself to multiple career opportunities or progression into a variety of BA/BS options.

Related Careers
- Postsecondary Teachers, All Other

University Studies, A.S.

Requirements
The University Studies Associate in Arts/Science is designed to provide an opportunity for students who may be potentially exploring their career and major options, or provides flexibility for those that are seeking an Associate that enables transferability or simply completion of a broad variety of curriculum options. The AS/AA UVST enables the ability to begin work toward the General Education requirements while meeting the needs of a broad variety of student circumstances.

Total Program Credits: 60

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)
  or ENGL 2020 Intermediate Writing--Science and Technology 3

Complete one of the following: 3
- MATH 1030 Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)
- MATH 1040 Introduction to Statistics (3.0) (recommended for Social Science majors)
- MATH 1050 College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)

Complete one of the following: 3
- HIST 2700 US History to 1877 (3.0)
  and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following: 3
- PHIL 2050 Ethics and Values 3
- HLTH 1100 Personal Health and Wellness (2.0)
  or PES 1097 Fitness for Life 2

Distribution Courses:
- Biology 3
- Physical Science 3
- Additional Biology or Physical Science 3
- Humanities Distribution 3
- Fine Arts Distribution 3
- Social/Behavioral Science 3

Discipline Core Requirements: 25 Credits
- Any course(s) 1000 or higher 17
- One Language (other than English) to include the 1010 or 1020 levels 8

Graduation Requirements:
1. Completion of a minimum of 60 semester credits.
University Studies

2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

University Studies, A.S.

Careers

The AS/AA in University Studies is an Associate’s degree that allows for customization and flexibility in a student’s educational path. While not specifically focused on a particular major, the AS/AA University Studies requires completion of General Education coursework along with 25 credits of Electives. These electives allow students to customize their curriculum to their individual needs, explore various major and career opportunities, and utilize credits toward graduation that may span a broad variety of topics. This flexibility lends itself to multiple career opportunities or progression into a variety of BA/BS options.

Related Careers

• Postsecondary Teachers, All Other

University Studies, B.A.

Requirements

The BA/BS is designed to meet the academic and professional objectives of learners whose needs are not addressed through existing degree programs. The degree assists learners in developing essential skills valued by employers and graduate schools (e.g., applied learning, critical thinking, written and oral communication, teamwork, ethical reasoning, and global understanding) within the framework of a larger discipline. Learners will complete a structured yet customized set of upper division courses under the guidance of an advisor and faculty mentor to ensure that standards for academic rigor at the Bachelor level are achieved. Candidates for the degree will focus on intellectual skills and integrative knowledge by enrolling in courses in a general disciplinary area with intentionally-selected, specialized knowledge courses that contribute to an integrated whole, and by completing a capstone experience that further prepares them for their chosen professions or graduate school admission. Under the direction of a faculty member, students will complete a capstone course or an internship which will involve reflection and a synthesis of learning to demonstrate achievement of the learning outcomes for the degree.

Total Program Credits: 120

Matriculation Requirements:

1. An approved Plan of Study that focuses on the achievement of clearly defined personal, career, or professional goals, as part of the application process for the major.
2. Minimum 2.0 grade point average.
3. Completed 60 or more semester credit hours.

General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing--Humanities/Social Sciences (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing--Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (4.0)</td>
<td></td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>Complete the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HIST 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values (3.0)</td>
<td></td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097</td>
<td>Fitness for Life</td>
<td>2</td>
</tr>
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</table>

Distribution Courses:

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Distribution (Fulfilled with Foreign Language 202G/2020 course)</td>
<td>4</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 32 Credits

Complete the area of focus within the Plan of Study that was created during the matriculation process. At least 12 of these 30 credits must be upper-division, including at least one of the following: *

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 3000</td>
<td>Media Ethics (3.0) (Cross-listed with PHIL 3010)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3300</td>
<td>Collaborative Communication for Technology Professionals (3.0)</td>
<td>3</td>
</tr>
<tr>
<td>HUM 3060</td>
<td>Visual Rhetoric (3.0) (Cross-listed with ENGL 3060)</td>
<td>3</td>
</tr>
<tr>
<td>HUM 3500</td>
<td>Approaches to Humanities (3.0)</td>
<td></td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3000</td>
<td>Formal Logic II (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3400</td>
<td>Philosophy of Science (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete two credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>UVST 481R</td>
<td>Internship (1.0)</td>
<td>2</td>
</tr>
<tr>
<td>UVST 4930</td>
<td>Capstone (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

Elective Requirements: 52 Credits

Complete any 1000-level or higher course

One Foreign Language (Foreign Language 202G/2020* course fulfills Humanities Distribution) 12 Credits

Graduation Requirements:

1. Completion of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. At least 40 credit hours in upper division courses.
5. Complete 16 credit hours of course work from one language to include the 1010, 1020, 2010 and 202G/2020 levels, or transferred equivalents.
6. Completion of General Education requirements.
7. Completion of specific departmental (major) requirements.

Footnote

* If focus area is with the Woodbury School of Business, only 21-24 credits may be used.
University Studies, B.A.

Careers

The UVST BA/BS is a degree that does not prepare students for a specific career path; rather it situates graduates for a range of future possibilities and may be less vulnerable to changes in market demand than more traditional degrees in that it focuses on intellectual and integrative learning outcomes that serve individuals well in a variety of careers. Graduates will have a disciplinary focus broader than a single major, but most courses will come from within one of the 8 specific Colleges found at Utah Valley University. This is often beneficial when student interests are varied across a College, or for the need of a variety of disciplines would be beneficial to application to professional program such as law or medicine.

As many employers do not require a specific degree, the skills that are established with the completion of a Bachelor’s degree allow for potential employees to become capable and adept in skills such as critical thinking, communication, and problem solving. The UVST BA/BS is designed to provide development of these skill sets plus many others, thus increasing the likelihood of employability in a broad range of in-demand professions in today’s fast-paced, ever changing economy.

Also, many of the students seeking completion of the BA/BS UVST may be in a career path that they find satisfactory and rewarding. This degree provides the opportunity to complete a Bachelor’s degree that may not have previously existed for non-traditional students who do not have the luxury of a traditional class schedule. The UVST BA/BS may facilitate advancement for these students who have progressed as far as possible in their chosen career path without a Bachelor’s degree.

Related Careers

- Postsecondary Teachers, All Other

University Studies, B.S.

Requirements

The BA/BS is designed to meet the academic and professional objectives of learners whose needs are not addressed through existing degree programs. The degree assists learners in developing essential skills valued by employers and graduate schools (e.g., applied learning, critical thinking, written and oral communication, teamwork, ethical reasoning, and global understanding) within the framework of a larger discipline. Learners will complete a structured yet customized set up upper division courses under the guidance of an advisor and faculty mentor to ensure that standards for academic rigor at the Bachelor level are achieved. Candidates for the degree will focus on intellectual skills and integrative knowledge by enrolling in courses in a general disciplinary area with intentionally-selected, specialized knowledge courses that contribute to an integrated whole, and by completing a capstone experience that further prepares them for their chosen professions or graduate school admission. Under the direction of a faculty member, students will complete a capstone course or an internship which will involve reflection and a synthesis of learning to demonstrate achievement of the learning outcomes for the degree.

Total Program Credits: 120

Graduation Requirements:

1. Completion of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. At least 40 credit hours in upper division courses.
5. Completion of General Education requirements.
6. Completion of specific departmental (major) requirements.
7. Completion of Global/Intercultural Requirement course.

Footnote

* If focus area is with the Woodbury School of Business, only 21-24 credits may be used.
University Studies

University Studies, B.S.

Careers

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<tr>
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<tr>
<td>The UVST BA/BS is a degree that does not prepare students for a specific career path; rather it situates graduates for a range of future possibilities and may be less vulnerable to changes in market demand than more traditional degrees in that it focuses on intellectual and integrative learning outcomes that serve individuals well in a variety of careers. Graduates will have a disciplinary focus broader than a single major, but most courses will come from within one of the 8 specific Colleges found at Utah Valley University. This is often beneficial when student interests are varied across a College, or the need for a variety of disciplines would be beneficial to application to professional program such as law or medicine. As many employers do not require a specific degree, the skills that are established with the completion of a Bachelor's degree allow for potential employees to become capable and adept in skills such as critical thinking, communication, and problem solving. The UVST BA/BS is designed to provide development of these skill sets plus many others, thus increasing the likelihood of employability in a broad range of in-demand professions in today's fast-paced, ever changing economy. Also, many of the students seeking completion of the BS UVST may be in a career path that they find satisfactory and rewarding. This degree provides the opportunity to complete a Bachelor's degree that may not have previously existed for non-traditional students who do not have the luxury of a traditional class schedule. The UVST BA/BS may facilitate advancement for these students who have progressed as far as possible in their chosen career path without a Bachelor's degree.</td>
</tr>
</tbody>
</table>

Related Careers

• Postsecondary Teachers, All Other
Volunteer and Service Learning Center

<table>
<thead>
<tr>
<th>Name:</th>
<th>Volunteer &amp; Service-Learning Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>SC 105</td>
</tr>
<tr>
<td>Telephone:</td>
<td>801-863-8786</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:volunteer@uvu.edu">volunteer@uvu.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td>uvu.edu/volunteer</td>
</tr>
<tr>
<td>Director:</td>
<td>Summer B Valente</td>
</tr>
</tbody>
</table>

The Volunteer and Service-Learning Center engages students, faculty, staff, and community organizations in collaborative work and sustained partnerships resulting in transformative learning experiences and community change. Through programs and projects in the classroom, the community, and the world, the Center works to increase social and cultural awareness, build a sense of community commitment, and extend meaningful educational opportunities that increase knowledge and enhance academic skill. These goals are realized through academic service-learning, student leadership, community partnerships, and campus collaboration. For more information on all the ways you can get involved visit uvu.edu/volunteer.
ACC 1150  
Fundamentals of Business Math  
3:3:0  
Fall, Spring  
* Prerequisite(s): MAT 0950 or equivalent

Designed for the business student as a review of mathematical principles, techniques, computations, and their applications to business problems. Topics include: checking accounts and bank reconciliations, percents, solving for the unknown, discounts, markups and markdowns, payroll, simple interest, discounting notes, present and future value, depreciation, inventory, taxes, insurance, stocks and bonds, annuities, sinking funds, and calculator procedures. Lab access fee of $32 for computers applies.

ACC 1750  
Applied Accounting  
4:4:0  
On Sufficient Demand  
* Prerequisite(s): Appropriate placement scores or ENGH 1000 with a grade of C- or higher

Designed for non-accounting majors in Executive Assistant and Paralegal. Provides comprehensive coverage of the accounting cycle for services and merchandising organizations. Topics include: Journalizing, posting, financial statements, closing, accounting systems, internal control, accounts receivable, accounts payable, inventory control, and payroll. Taught in a computer environment. Lab access fee of $32 for computers applies.

ACC 2010  
Financial Accounting  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): ACC 1150 recommended if required for your degree

Teaches concepts and methods underlying preparation of financial statements utilizing generally accepted accounting principles (GAAP). Includes the accounting cycle, income determination for service and merchandising operations; and the reporting of assets, liabilities, and equity for sole proprietorships and corporations. May be delivered online. Lab access fee of $32 for computers applies.

ACC 2020  
Managerial Accounting  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): ACC 1150

Focuses on the methods and tools used to generate information for decision making by managers within an organization and integrates decision-making throughout the course. Addresses five primary topics: preparation and interpretation of the statement of cash flow; determining the cost of products, services, and segments of the organization; short-term/long-term role of planning in management; the control function of management and current issues in management accounting. May be delivered hybrid and/or online. Lab access fee of $32 for computers applies.

ACC 2030  
Principles of Accounting  
6:6:0  
Not Offered  
* Prerequisite(s): Appropriate placement scores or ENGH 1000 with a grade of C- or higher

Focuses on the role of accounting in planning and controlling a business and reporting results to decision makers. An accounting information system is developed to analyze, record business transactions and generate financial statements for decision makers outside of the organization. Teaches how to interpret external financial reports, assess the viability and profitability of businesses. Also addresses how to use managerial accounting principles to general internal reports, establish budgets, analyze variances, evaluate cost behavior, and control operations through a combination of responsibility accounting and internal controls. Integrates ACC 2010 (Financial Accounting) and ACC 2020 (Managerial Accounting,) for students who want to fulfill both requirements in a single semester and to understand how Financial and Managerial Accounting concepts work together to succinctly represent huge volumes of transactions that drive modern business. Lab access fee of $32 for computers applies.

ACC 2100  
Payroll Accounting  
3:3:0  
Not Offered  
* Prerequisite(s): ACC 2010 or ACC 2030

Designed for accounting majors and as elective credit for other business majors. Comprehensive coverage of payroll laws, calculations, registers, taxes, compliance, and accounting entries. Laboratory experiences include manual and automated payroll methods. Lab access fee of $32 for computers applies.

ACC 2610  
Accounting Systems Applications  
3:3:1  
Not Offered  
* Prerequisite(s): ACC 2010, IM 2010 or Computer Proficiency Exam

For second-year students pursuing a certificate, diploma, or degree in accounting. Reviews basic accounting and internal controls. Familiarizes students with Windows, computer hardware, Internet and E-mail. Includes Windows operating system, using popular accounting software (QuickBooks, Peachtree). Integrates accounting information with other software programs such as spreadsheets and word processing. Lab access fee of $32 for computers applies.

ACC 281R  
Cooperative Work Experience  
2 to 8:0:10 to 40  
Fall, Spring, Summer  
* Prerequisite(s): Approval of School of Business Career and Corporate Manager

Designed for accounting majors to provide on-the-job work experience that will utilize the student's skills and abilities in the field of accounting. Requires a portfolio of acquired work experience and enhanced skills. Includes student, employer, and coordinator evaluations; on-site coordinator visits; written assignments; and oral presentations. Provides experience in formulating and completing individualized work experience objectives. A maximum of 3 credits may apply toward graduation. May be graded credit/no credit.

ACC 3010  
Intermediate Accounting I  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): ACC 2010 with a B- or higher, ACC 2020, IM 2600, MATH 1050 with a C or higher, and University Advanced Standing

Provides comprehensive coverage of the accounting cycle for services and merchandising organizations. Topics include: Journalizing, posting, financial statements, closing, accounting systems, internal control, accounts receivable, accounts payable, inventory control, and payroll. Taught in a computer environment. Lab access fee of $32 for computers applies.

ACC 3020  
Intermediate Accounting II  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): ACC 3010, MKTG 2200, and University Advanced Standing  
* Prerequisite(s) or Corequisite(s): ACC 3300

Reviews and expands on fundamental accounting material learned in beginning classes and to gain a solid understanding of the accounting cycle process. Helps the student develop the background necessary to succeed as a professional accountant. May be delivered hybrid. Lab access fee of $32 for computers applies. Canvas Course Mats $68/McGraw applies.

ACC 3000  
Financial Managerial and Cost Accounting Concepts  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): ENGL 2010 or ENGL 2020, MAT 1010 or higher, and University Advanced Standing

Provides comprehensive coverage of the accounting cycle for services and merchandising organizations. Topics include: Journalizing, posting, financial statements, closing, accounting systems, internal control, accounts receivable, accounts payable, inventory control, and payroll. Taught in a computer environment. Lab access fee of $32 for computers applies.

ACC 3000  
Advanced Accounting Concepts  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): ACC 2010 with a B- or higher, ACC 2020, IM 2600, MATH 1050 with a C or higher, and University Advanced Standing

Provides comprehensive coverage of the accounting cycle for services and merchandising organizations. Topics include: Journalizing, posting, financial statements, closing, accounting systems, internal control, accounts receivable, accounts payable, inventory control, and payroll. Taught in a computer environment. Lab access fee of $32 for computers applies. Canvas Course Mats $68/McGraw applies.

ACC 3000  
Advanced Accounting Concepts  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): ACC 2010 with a B- or higher, ACC 2020, IM 2600, MATH 1050 with a C or higher, and University Advanced Standing

Provides comprehensive coverage of the accounting cycle for services and merchandising organizations. Topics include: Journalizing, posting, financial statements, closing, accounting systems, internal control, accounts receivable, accounts payable, inventory control, and payroll. Taught in a computer environment. Lab access fee of $32 for computers applies. Canvas Course Mats $68/McGraw applies.

ACC 3000  
Advanced Accounting Concepts  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): ACC 2010 with a B- or higher, ACC 2020, IM 2600, MATH 1050 with a C or higher, and University Advanced Standing

Provides comprehensive coverage of the accounting cycle for services and merchandising organizations. Topics include: Journalizing, posting, financial statements, closing, accounting systems, internal control, accounts receivable, accounts payable, inventory control, and payroll. Taught in a computer environment. Lab access fee of $32 for computers applies. Canvas Course Mats $68/McGraw applies.

ACC 3000  
Advanced Accounting Concepts  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): ACC 2010 with a B- or higher, ACC 2020, IM 2600, MATH 1050 with a C or higher, and University Advanced Standing

Provides comprehensive coverage of the accounting cycle for services and merchandising organizations. Topics include: Journalizing, posting, financial statements, closing, accounting systems, internal control, accounts receivable, accounts payable, inventory control, and payroll. Taught in a computer environment. Lab access fee of $32 for computers applies. Canvas Course Mats $68/McGraw applies.
ACC 3030
Intermediate Accounting for Non-
Accounting Majors
3:3:0  On Sufficient Demand
* Prerequisite(s): ACC 2010 and University Advanced Standing

An intermediate accounting course for non-accounting majors with emphasis on interpretation and use of general-purpose financial statements and the related disclosure notes. Addresses understanding interrelationships among the various financial statements and analyzing the effects of transactions on the financial statements. Analyzes common and significant accounts/transactions, especially those relating to the liability and equity sections of the financial statements.

ACC 3120
Internal Auditing
3:3:0  Not Offered
* Prerequisite(s): ENGL 1010, MATH 1050 or higher, junior standing, minimum cumulative GPA of 3.0, and University Advanced Standing

Introduces students to the theories of governance, risk, and control concepts; internal auditing standards; audit techniques; and reporting practices. Applicable across disciplines.

ACC 312G
International Internal Auditing
3:3:0  Fall, Spring, Summer
* Prerequisite(s): ACC 2020 and University Advanced Standing

Introduces students to the international internal auditing standards; global auditing case studies; theories of governance, risk, and control concepts; audit techniques; and reporting practices. Applicable across disciplines. May be delivered hybrid and/or online. Tool fee of $29 applies.

ACC 3300
Cost Management
3:3:0  Fall, Spring, Summer
* Prerequisite(s): ACC 2020, MGMT 2340, IM 2600, and University Advanced Standing

Provides a strategic approach to cost management and the development and use of relevant information for management decision making. Builds a foundation by discussing the various concepts of cost, cost behavior, and cost estimation techniques. Addresses costing of products and other cost objects using job order and process costing, activity-based costing, and cost allocation. Introduces management control topics of budgeting and performance evaluation through variance analysis. Concludes with current topics in cost management. May be delivered online. Lab access fee of $32 for computers applies.

ACC 3400
Individual Income Tax
3:3:0  Fall, Spring, Summer
* Prerequisite(s): ACC 2020 and University Advanced Standing

Studies federal individual income taxes. Covers the accounting theory and practices of federal individual income taxation based on a study of the laws, regulations, and income tax decisions. Lab access fee of $32 for computers applies.

ACC 341R
Tax Return Preparation
1:0:5:2  Not Offered
* Prerequisite(s): Instructor Approval and University Advanced Standing

Students learn to use tax preparation software to prepare federal and state income tax returns. Module selections are available to learn to prepare individual income tax returns that vary from the simple 1040EZ to complex individual tax returns with multiple forms. Students may also learn to prepare income tax returns for corporations, partnerships, trusts, gifts, and estates. This course may be taken multiple times. May apply a maximum of 3 credits toward graduation. Will be graded credit/no credit.

ACC 3510
Accounting Information Systems
3:3:0  Fall, Spring, Summer
* Prerequisite(s): ACC 3010, IM 2600, and University Advanced Standing

Teaches analysis design and implementation of accounting information systems. Emphasizes accounting cycles, internal controls, and computerized environments. May be delivered hybrid. Lab access fee of $32 for computers applies.

ACC 4020
Advanced Financial Accounting
3:3:0  Fall, Spring, Summer
* Prerequisite(s): ACC 3020, Matriculation into the BS Accounting degree program, and University Advanced Standing


ACC 4030
Governmental and Not-For-Profit Accounting
3:3:0  Fall
* Prerequisite(s): ACC 3010, Matriculation into the BS Accounting degree program, and University Advanced Standing

Covers areas of governmental and not-for-profit accounting and reporting. Includes fund accounting, the budgetary process, governmental financial reporting, not-for-profit organizations, health care organizations, colleges and universities, and public sector auditing. Lab access fee of $32 for computers applies.

ACC 4110
Auditing
3:3:0  Fall, Spring, Summer
* Prerequisite(s): ACC 312G, Matriculation into the BS Accounting degree program, and University Advanced Standing

Provides an introduction to independent audits of financial statements in accordance with generally accepted auditing standards, the environment in which audits are performed, and professional ethics. Includes basic audit concepts and procedures related to planning, testing internal controls, investigating reported financial results of business process cycles, and required auditor communications. May be delivered online. Lab access fee of $32 for computers applies. Canvas Course Mats $68/ McGraw applies.

ACC 4130
Case Studies in Internal Auditing
3:3:0  Spring
* Prerequisite(s): ACC 312G and University Advanced Standing

Covers managing the internal audit function and individual internal audit engagements. Covers internal audit knowledge elements of governance, risk management, business process risks, and business continuity. May be delivered hybrid.

ACC 4140
Advanced Internal Auditing
3:3:0  On Sufficient Demand
* Prerequisite(s): ACC 4130 with a grade of C or higher, Matriculation into the BS Accounting degree program, and University Advanced Standing

Covers advanced topics in the theories of governance, risk, and control concepts; internal auditing standards; and audit techniques.

ACC 4310
Advanced Management Accounting
3:3:0  Fall, Spring, Summer
* Prerequisite(s): ACC 3300, Matriculation into any Woodbury School of Business bachelor degree program, and University Advanced Standing

Studies and applies advanced topics in Cost Management such as value chain analysis, activity-based management, and other current topics and issues in management accounting. Teaches the principles of management control including strategic planning, budgeting, performance measurement. Includes active class discussion, case analysis, and student presentations.

ACC 4350
Management Control
3:3:0  Not Offered
* Prerequisite(s): (ACC 2020 or ACC 2030), Senior Standing in any Woodbury School of Business Bachelor program, and University Advanced Standing

Covers the management control environment and the structure of management control systems (responsibility center, transfer pricing, and measuring/controlling assets). Addresses the management control process (strategic planning, budgeting, performance measurement and analyzing operational and financial performance, and management compensation). Discusses variations in management control (controls for differentiated strategies, service organizations, and multinational organizations).

ACC 4400
Taxation of Corporations/Partnerships/ Estates and Trusts
3:3:0  Not Offered
* Prerequisite(s): ACC 3400, Matriculation into the Bachelor's Degree Program, and University Advanced Standing

For accounting majors and other business students. Studies federal and state taxation of corporations, S-corporations, partnerships, estates, and trusts. Teaches practical application of income tax laws and regulations. Researches source of tax law through the use of electronic medium. Uses computers for preparation of tax returns. Successful completers should be qualified to prepare federal and state tax returns for small businesses, estates, and trusts. Lab access fee of $32 for computers applies.
ACC 4410  Tax Research  3:3:0  Not Offered  * Prerequisite(s): ACC 3010, ACC 3400, Matriculation into the BS Accounting degree program, and University Advanced Standing  

Studies theory and practice of tax research as it applies to federal income taxation laws, rules and regulations. Applies ethical considerations and standards to tax practice. Emphasizes computerized tax research techniques which will be explored through cases dealing with administrative aspects of the IRS, court cases, client communications and a wide variety of tax topics.

ACC 4420  Corporate Tax  3:3:0  Fall, Spring  * Prerequisite(s): ACC 3400, MGMT 2390, Matriculation into the BS Accounting degree program, and University Advanced Standing  

Covers accounting theory and practices of the federal income taxation laws, rules and regulations relating to sales and exchanges of assets and the formation and operation of corporations and S corporations, and their effects upon the corporation’s shareholders.

ACC 4440  Partnership Tax  3:3:0  On Sufficient Demand  * Prerequisite(s): ACC 3010, ACC 3400, MGMT 2390, Matriculation into the BS Accounting degree program, and University Advanced Standing  

Covers accounting theory and practices of the federal income taxation laws, rules and regulations relating to the formation and operation of partnerships, and their effects upon partners.

ACC 4460  Estate and Gift Tax  3:3:0  On Sufficient Demand  * Prerequisite(s): ACC 3010, ACC 3400, MGMT 2390, Matriculation into the BS Accounting degree program, and University Advanced Standing  

Teaches the law and theory of federal taxation of estates and gifts based on a study of the sources of the law including the code, regulations, and digest of official income tax decisions.

ACC 4510  Information Systems Auditing  3:3:0  Fall, Spring  * Prerequisite(s): ACC 3510, ACC 312G, Matriculation into any Woodbury School of Business program, and University Advanced Standing  

Provides a project course covering IT audit and its impact on the financial statement audit. Covers information security, social engineering, and fraud data mining are also covered as they relate to accounting information systems and the associated data. May be delivered hybrid. Lab access fee of $32 for computers applies.

ACC 470R  Current Topics in Accounting  1 to 3:1 to 3:0  On Sufficient Demand  * Prerequisite(s): Department Chair approval and University Advanced Standing  

Course varies from semester to semester. Provides opportunities for students to become exposed to emerging technology and topics of current interest and demand in Accounting. Repeatable for a maximum of 3 credits toward graduation.

ACC 4800  (Cross-listed with: LEGL 4800)  Fraud Examination and Forensic Accounting  3:3:0  Fall, Spring  * Prerequisite(s): ACC 312G, MKTG 2390, Matriculation into the BS Accounting degree program, and University Advanced Standing  

Introduces accounting and business students to the seriousness of fraud and its impact on business and society. Examines the elements of forensic accounting and fraud detection, prevention, and resolution. Course fee of $19 for materials applies.

ACC 481R  Internship  2 to 8:0:0 10 to 40  Fall, Spring, Summer  * Prerequisite(s): Approval of School of Business Career and Corporate Manager and University Advanced Standing  

For upper-division students in accounting. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job paid experience commensurate with upper-division classroom instruction. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

ACC 490R  Accounting Seminar  1 to 3:1 to 3:0 to 9  On Sufficient Demand  * Prerequisite(s): Matriculation into the BS Accounting degree program, Department Chair Approval, and University Advanced Standing  

Designed to provide short courses, workshops, and special programs on accounting-related topics. May be repeated for a maximum of 3 credits toward graduation.

ACC 491R  Independent Study  1 to 4:0 to 4:0 to 12  On Sufficient Demand  * Prerequisite(s): Department Chair approval and University Advanced Standing  

For bachelor’s degree students and other interested persons. Offers independent study as directed in reading, individual projects, etc., at the discretion and approval of the department chairperson. Repeatable for a maximum of 3 credits toward graduation.

ACC 6350  Accounting Strategies for Achieving Profit Goals  3:3:0  Spring  * Prerequisite(s): Acceptance into the Woodbury School of Business MBA program  

Analysis of design management control systems through case studies to enable the successful implementation of accounting strategies in a variety of for-profit entities. Emphasizes the development of the students’ analytical and decision-making skills.

ACC 6410  Tax Research and Procedure  3:3:0  Fall  * Prerequisite(s): Acceptance into the Woodbury School of Business MBA program  

Examines substantive tax law and tax issues or problems. Practices the necessary skills to thoroughly research and analyze a tax problem, as well as to report research analysis and conclusions accurately and understandably. Explores computerized tax research methods, and the organization of the I.R.S. with some of the procedural aspects of tax compliance and practice, tax related penalties, professional responsibility and tax ethics.

ACC 6500  Advanced Accounting Information Systems  3:3:0  Not Offered  * Prerequisite(s): Acceptance in the MBA program  

Develops the background necessary to plan, design and implement an accounting information system.

ACC 6510  Financial Auditing  3:3:0  * Prerequisite(s): Acceptance into the Woodbury School of Business MBA program  

Examines current auditing standards for independent audits of financial statements. Explores current auditing standards, proposed auditing standards, relevant legislation, and selected contemporary advanced topics in auditing. Canvas Course Mats $68/McGraw applies.

ACC 6960  Accounting Theory and Research  3:3:0  Fall  * Prerequisite(s): Acceptance into the Woodbury School of Business MBA program  

Utilizes an analytical approach to understanding the financial reporting environment, integration of accounting theory and practical research methodology in the resolution of financial reporting problems.

Aerospace Studies (AERO)  

AERO 1000  Leadership Laboratory 1A  0.5:0:2  Fall  

Studies basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility.
Course Descriptions

AERO 1010
Leadership Laboratory 1B  
0.5:0:2 Spring
Studies basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility.

AERO 1100
The Air Force Today  
1:1:0 Fall
* Corequisite(s): AERO 1000
Teaches development, organization, and doctrine of the U.S. Air Force. Emphasizes Strategic Force requirements.

AERO 1110
Aerospace Defense General Purpose and Support Forces  
1:1:0 Spring
* Corequisite(s): AERO 1010

AERO 143R
Air Force Physical Training  
0.5:0:2 Fall, Spring
* Corequisite(s): AERO 1000
Prepares students for the physical demands placed upon them at Air Force Field Training encampment normally attended between their sophomore and junior years. Provides leadership opportunities and tests a cadet's physical fitness. Repeats are allowed. See advisor for details. May be repeated for a maximum of four credits.

AERO 2000
Leadership Laboratory 2A  
0.5:0:2 Fall
Teaches fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Increased emphasis on performance level.

AERO 2010
Leadership Laboratory 2B  
0.5:0:2 Spring
Teaches fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Increased emphasis on performance level.

AERO 2100
The Developmental Growth of Air Power-A  
1:1:0 Fall
* Corequisite(s): AERO 2000
Studies development of various concepts of air power employment, emphasizing factors that have prompted research and technological change.

AERO 2110
The Development and Growth of Air Power-B  
1:1:0 Spring  
* Corequisite(s): AERO 2010
Studies development of various concepts of air power employment. Emphasizes factors that have prompted research and technological change.

AERO 3000
Leadership Laboratory 3A  
0.5:0:2 Fall
* Prerequisite(s): University Advanced Standing
Teaches basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Students perform as cadet officers. Emphasizes leadership development.

AERO 3010
Leadership Laboratory 3B  
0.5:0:2 Spring
* Prerequisite(s): University Advanced Standing
Teaches basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Students perform as cadet officers. Emphasizes leadership development.

AERO 305R
Leadership Laboratory Honor Guard  
1:0:3 Fall, Spring
* Prerequisite(s): University Advanced Standing
Introduces students to the United States Air Force (USAF) and the Reserve Officer Training Corps (ROTC). Includes conflict management, followership, leadership responsibility, officership, and process improvement.

AERO 3100
Management and Leadership-A  
3:3:0 Fall
* Prerequisite(s): University Advanced Standing
Introduces students to the United States Air Force (USAF) and the Reserve Officer Training Corps (ROTC). Includes conflict management, followership, leadership responsibility, officership, and process improvement.

AERO 3110
Management and Leadership-B  
3:3:0 Spring
* Prerequisite(s): University Advanced Standing
Introduces students to the United States Air Force (USAF) and the Reserve Officer Training Corps (ROTC). Includes conflict management, followership, leadership responsibility, officership, and process improvement.

AERO 3200
Jet Pilot Introduction  
2:2:0 Fall
* Prerequisite(s): University Advanced Standing
Studies principles of flight and accompanying issues. Introduces meteorology. Presents FARs as they apply to the private pilot. Provides orientation, understanding, and preparation of the US Air Force Undergraduate Pilot Training (UPiT).

AERO 399R
Academic Internship--Leadership Intern Program  
4:0:8 Summer
* Prerequisite(s): Instructor Approval for Air Force ROTC Cadets only and University Advanced Standing
Provides advanced fundamentals of military leadership, planning, organizing, and team building at various levels of responsibility. May be repeated for a maximum of 4 credits toward graduation. May be graded credit/no credit.

AERO 400R
Leadership Laboratory 4A  
0.5:0:2 Fall
* Prerequisite(s): University Advanced Standing
Presents basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Students perform as cadet officers. Emphasizes leadership development. May be repeated for a maximum of 2 credits.

AERO 401R
Leadership Laboratory 4B  
0.5:0:2 Spring
* Prerequisite(s): University Advanced Standing
Presents basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Students perform as cadet officers. Emphasizes leadership development. May be repeated for a maximum of 2 credits.

AERO 4100
National Security Affairs-A  
3:3:0 Fall
* Prerequisite(s): University Advanced Standing
Studies the military profession, civil-military interaction, and the forming of defense strategy.

AERO 4110
National Security Affairs-B  
3:3:0 Spring
* Prerequisite(s): University Advanced Standing
Studies the military profession, civil-military interaction, and the forming of defense strategy.

American Indian Studies (AIST)

AIST 358G
American Indian Health Policy  
3:3:0  
* Prerequisite(s): ENGL 2010, University Advanced Standing, and one of the following: POLS 1000, POLS 1100, HIST 1700, HIST 1740, HIST 2700, HIST 2710
Explores the history, political economy, and epidemiology of American Indian health issues in the United States. Examines the effects of the pandemics brought by the European conquest, the changing Native views and practices in health, the Federal government's practical and legal assumption of responsibility for Native health, and the development of the administration and organization for Native health. Considers modern health issues ranging from diabetes to domestic violence, and the policy responses to them.

AIST 4600
Contemporary American Indian Political and Social Issues  
3:3:0  
* Prerequisite(s): (AIST 358G or POLS 359G) and University Advanced Standing
Surveys current research and perspectives on contemporary American Indian issues. Utilizes a seminar approach in which each student will prepare summaries of books and articles to be distributed to the other class members. Includes identity, political activism, historiography, health, and political and cultural issues.
AIST 490R  
Special Topics in American Indian Studies  
3:3:0  
Prerequisite(s): ENGL 1010 and [POLS 1000 or POLS 1100 or HIST 1700 or HIST 1740 or (HIST 2700 and HIST 2710)] and University Advanced Standing  
Explores special topics in American Indian Studies and related subjects. Examples of special topics may include health, specific tribal communities, education, political issues, the humanities in Native culture, economic and political community development, comparative studies, social science perspectives, or other areas of student and faculty interest. May be repeated for a maximum of 6 credits.

American Studies  
(AMST)  

AMST 2000  
Introduction to American Studies  
3:3:0  
Spring  
Prerequisite(s): ENGL 1010 or ENGL 2020  
Introduces students to the interdisciplinary study of American culture. Employs insights and approaches from literature, history, art, sociology, anthropology, and political science. Analyzes a variety of texts and artifacts. Explores selected themes and issues central to American Studies.

AMST 300R  
Topics in American Studies  
3:3:0  
Fall, Spring  
Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing  
Uses an interdisciplinary approach to study various topics and themes in American Studies. Topics might include Western American Culture, Nature and Culture, Popular Culture in America, Mass Media in America, etc. May be repeated for up to 6 credits toward graduation.

Anthropology  
(ANTH)  

ANTH 101G  
Social/Cultural Anthropology  
3:3:0  
Fall, Spring, Summer  
Prerequisite(s): ENGL 1010 with a grade of C+ or higher  
Introduces students to the variability of human behavior cross-culturally and provides an understanding of the holistic approach to human behavior. Explores interrelationships, in a variety of cultural contexts, between beliefs, economic structures, sexuality, eating habits, ecology, politics, living arrangements, psychology, symbolism, and kinship. May be delivered hybrid.

ANTH 1020  
(Cross-listed with: BIOL 1500)  
Biological Anthropology  
3:3:0  
Fall, Spring  
Prerequisite(s): ENGL 1010 and (ANTH 101G or BIOL 1010)  
Introduces the basic scientific methods and findings of biological anthropology and provides meaningful context by relating them to the larger contexts of evolutionary biology, nonhuman primatology, psychology, archeology, and sociocultural anthropology. Describes history of the discipline and its controversies. Studies genetics, natural selection, comparative anatomy, forensics, and field paleoanthropology.

ANTH 1030  
World Prehistory  
3:3:0  
Fall, Spring  
Introduces the archaeological record of human prehistory. Explores the earliest fossil remains and follows the development of humans throughout prehistory. Examines techniques used by archaeologists to find, recover, date and analyze prehistoric artifacts.

ANTH 180G  
(Cross-listed with: HIST 180G)  
Introduction to American Indian Studies  
3:3:0  
Fall  
Provides overview of modern and historical American Indian communities in the United States. Explores political and historical issues of major tribes and Indian communities by region. Provides students with information and perspectives on key social and cultural issues: spirituality, relations with the Federal government, notable individuals, art, literature, dance, media, health, education and activism.

ANTH 2030  
Archeological Method and Theory  
3:3:0  
Spring  
Explores the history, goals, theories, and methods of anthropological and archeological research, especially as influenced by the natural sciences. Examines variations in prehistoric human behavior by analyzing the physical remains of ancient peoples throughout diverse time periods and geographical locations.

ANTH 3000  
(Cross-listed with: LANG 3000)  
Language and Culture  
3:3:0  
Fall  
Prerequisite(s): ENGL 1010, ANTH 101G or any foreign language 2010 course, Sophomore status, and University Advanced Standing  
Introduces cultural linguistics. Analyzes features of human languages that make possible semantic universality. Examines distinction between phonetic and phonemic units. Explores relationship between language and culture. Studies how language shapes culture and how culture shapes language. May be delivered online.

ANTH 3150  
(Cross-listed with: HLTH 3150)  
Culture Ecology and Health  
3:3:0  
Fall  
Prerequisite(s): ENGL 2010 or ENGL 2020 with a grade of C+ or higher, ANTH 101G, and University Advanced Standing  
Examines reciprocal roles of culture, environment, and disease in human health. Covers nutrition, stress, and traditional non-Western treatments. Explores cultures' use of their own global medicine to sustain health and welfare.

ANTH 3200  
Anthropology of Food  
3:3:0  
On Sufficient Demand  
Prerequisite(s): (ANTH 101G or SOC 1010) and (ENGL 2010 or ENGL 2020 with a grade of C+ or higher) and University Advanced Standing  
Explores the complex relationships between food and human action. Examines the biological and ecological underpinnings of human nutrition and the evolution of world cuisine, as well as the consequences of modernization for diet, nutrition, and health. Studies the selected social, cultural, medical, political, ideological, and symbolic uses of food in both Western and non-Western societies.

ANTH 3220  
Women Food and the Body  
3:3:0  
Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a grade of C+ or higher) and University Advanced Standing  
Examines the complex ways food and women are connected through food's actions on women's physical, social, economic, and cultural bodies in today's global society. Explores society's treatment of women as food, including controversies surrounding breastfeeding, and women's roles as food preparers, providers, and servers. Studies the relationship of women, food, and body image cross-culturally.

ANTH 3250  
Forensic Anthropology  
3:3:0  
Prerequisite(s): (ANTH 1020 or BIOL 1500 or instructor approval) and University Advanced Standing  
Provides hands-on laboratory exercises and examines theoretical and methodological issues in the medicolegal determination of personal identity and manner of death from human skeletal and dental remains when human or remains are skeletonized, too fragmentary, or too decomposed to examine through normal autopsy techniques. Examines state-of-the art methodological approaches, theoretical positions, and unresolved debates regarding the forensic analysis of human remains through lecture, discussion, excavation and recovery of a realistic simulated grave, hands-on laboratory exercises, and mock court testimony. Includes the forensic archaeological recovery of human remains, establishment of biological and individual profiles (including estimation of decedents age, sex, and antemortem life history) genetic identification, analysis of traumatic injuries, taphonomy, and specialized issues surrounding human rights, mass disasters, medicolegal ethics in forensic anthropology, and courtroom testimony.

ANTH 3300  
Development and Rural Societies  
3:3:0  
On Sufficient Demand  
Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a grade of C+ or higher) and University Advanced Standing  
Examines the importance of agriculture and village life in an increasingly globalized world. Explores peasant studies and the many concerns of rural development. Discusses poverty and how it relates to economic, social, and political development. Studies ways to ameliorate poverty and the role of governmental and non-governmental organizations in the process.


**Course Descriptions**

**ANTH 333R**  
Special Topics in North Coast Peruvian Archaeology  
3:3:0  
* Prerequisite(s): (ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing  
* Corequisite(s): ANTH 482R

Supplements the Archaeological Field Methods course and is held on the north coast of Peru so students can participate in the Lambayeque Valley Biohistory Project. Covers special, situational, and timely topics involving current debates, controversies and problem based subjects. Includes topics ranging from critiques of archeological method and theory to thematic issues such as the transition from foraging to farming, human sacrifice, ancient architecture, technology, settlement patterns, and mortuary archaeology. Emphasizes museography and engagement with local indigenous communities. Provides students unparalleled firsthand engagement with their subject matter and opportunities to establish connections with leading Andean archaeologists. May be repeated for a maximum of 9 credits toward graduation.

**ANTH 3340**  
Peoples and Cultures of Mexico  
3:3:0  
* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing

Explores the peoples and cultures of Mexico. Involves discussion regarding borders and immigration, indigenous cultures, rural/peasant societies, urban societies, and historical/political issues specific to Mexico. Emphasizes awareness of cultural relativity and global connectivity among the diverse peoples of Mexico.

**ANTH 3350**  
Andean Prehistory  
3:3:0  
* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and (ANTH 1030 or instructor approval) and University Advanced Standing

Offers an updated synthesis of the development, key achievements, material, organizational and ideological features of pre-Hispanic cultures of the Andean region of western South America. Spans around 12,000 years of pre-Hispanic cultural developments, from the earliest hunters-gatherers to the Spanish conquest of the Inca Empire. Focuses on the modern nation of Peru with an emphasis on the Pijaon, Cupisnique, Chavin, Paracas, Nasca, Gallinazo Moche, Recuaq, Tiwanaku, Wari, Cajamarca, Sicán, Chimú, and Inka.

**ANTH 3360**  
Contemporary Issues in American Culture  
3:3:0  
* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing

Examines key aspects of contemporary American culture. Studies timely topics involving current debates and controversies. Includes any or all of the following: American values and popular culture, ethnicity, gender, childhood, food, reproduction, technology, crime, and globalization. Highlights aspects of American culture not explored in other Behavioral Science curriculum.

**ANTH 3370**  
History and Ethnography of Andean Societies  
3:3:0  
* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a grade C+ or higher) and University Advanced Standing

Looks at the social and cultural processes that characterize the societies that descend from the Inca Empire--Bolivia, Ecuador, and Peru--as they have developed since the Spanish invasion. Discusses contemporary political, economic, and social problems in these countries in the context of global society.

**ANTH 3400**  
Myth Magic and Religion  
3:3:0  
* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing

Explores the many aspects of religion, including its history, diversity, and how it relates to social science studies. Examines terms such as myth, magic, religion, ritual and shamanism, among others, and how these terms are used to discuss religious and spiritual practices around the world.

**ANTH 3420**  
Andean Religion  
3:3:0  
* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a grade C+ or higher) and University Advanced Standing

Poses the question of what religiosity was prior to the Spanish conquest in the countries that were part of the Inca Empire--Bolivia, Ecuador, and Peru. Asks how one can determine religiosity given the fierceness of the conquest and the expiradation of idolatries that followed it. Explores the nature of Catholicism that was recreated on these Andean bases. Discusses the contemporary religious issues of Andean societies, such as secularity, and how Andean categories differ fundamentally in nature from those on which academic ideas of religion are constructed.

**ANTH 3450**  
Shamanism and Indigenous Religion  
3:3:0  
* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies the religious systems of indigenous peoples, particularly those which have been called shamanic. Focuses on the classical study of shamanism and the literature on indigenous shamanism. Locates the study of shamanism within a social context that includes social relational and political economic contexts of the groups within which shamanism is found. Poses questions of how shamanism is different from the expanding world religions and compares and contrasts shamanism with non-shamanic indigenous religions. Looks at the current marketing of shamanism in New Age contexts.

**ANTH 3460**  
Anthropology of Mormonism  
3:3:0  
* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing; ANTH 3400 recommended

Examines the anthropological and sociological work on Mormonism, both the Church and Mormon society and culture. Studies Mormonism in a comparative framework, and will explore the question of the adequacy of the conceptual apparatus of a social science of religion for comprehending Mormonism.

**ANTH 3480**  
Anthropology of Christianity  
3:3:0  
* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a grade C+ or higher) and University Advanced Standing

Develops the key issues that have arisen in the literature that explores Christianity from an anthropological perspective. Asks what is distinctive about Christianity as a form of religion. Explores the problems of studying Christianity when most of our basic social science concepts have Christian origins.

**ANTH 3500**  
Discourse Semiotics and Representation  
3:3:0  
* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing

Develops classical theoretical positions on representation, meaning, discourse, poetics, and performance of culture and their implications for scientific epistemology and methodology. Surveys recent work by anthropologists in a range of settings responding to questions raised by these concerns.

**ANTH 3550**  
Cross-listed with: HIST 3550  
Memory and History  
3:3:0  
* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and (HIST 3010 or instructor approval) and University Advanced Standing

Studies how societies remember and represent their past and present in various contexts. Examines how societies employ different senses of temporality in these processes. Explores the relationships with historiography and ethno history and how anthropologists and historians have dealt with these issues.

**ANTH 3700**  
Psychological Anthropology  
3:3:0  
* Prerequisite(s): PSY 1010 and ANTH 101G and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing; PSY 3400 strongly recommended

Explores interrelationships of individual personality to elements of Western and non-Western sociocultural systems. Examines relations of sociocultural contexts to self, motives, values, personal adjustment, stress and pathology using case histories and ethnography. Studies the idea of self and personality, normality and deviance, and mental health and mental illness across social and cultural boundaries.
ANTH 3710
Human Skeletal Anatomy and Analysis
3:3:0
* Prerequisite(s): [ANTH 1020 or BIOL 1500] and (ENG 2010 or ENGL 2020 with a minimum grade of C+) or instructor approval] and University Advanced Standing
Introduces the biological anthropology of the human skeleton. Involves the study of human skeletal anatomy and techniques in human identification: age-at-death, sex, stature, pathology, trauma, and habitual behaviors. Provides a strong practical component with half the classes spent in the laboratory. Required skills will be of value to any students interested in skeletal studies including archaeology, bioarchaeology, paleopathology, forensic science, vertebrate biology, biomedical sciences, human and primate evolution, paleoanthropology, and paleontology.

ANTH 3720
Applied Anthropology
3:3:0 On Sufficient Demand
* Prerequisite(s): ANTH 101G and (ENG 2010 or ENGL 2020) and University Advanced Standing
Surveys the ethics and methods used by applied anthropologists. Surveys a range of areas where applied work is performed, including development anthropology, anthropology and health, industrial anthropology, anthropology and marketing, etc. Also explores the political, social, and theoretical implications of applied work.

ANTH 3750
Bioarchaeology
3:3:0
* Prerequisite(s): [ANTH 1020 or BIOL 1500] and (ENG 2010 or ENGL 2020 with a minimum C+ grade) or Instructor approval] and University Advanced Standing
Focuses on the biological and contextual study of human remains recovered from archaeological sites. Presents an updated synthesis of bio-archaeological science dealing with the study of the human skeleton to reconstruct patterns of biological stress, infectious disease, lifestyle and physical activity, diet, violent death, and genetic relationships in the past. Temporal coverage principally falls on the last 10,000 years of history; and the spatial scope is global. Involves the dynamic nature of skeletal tissues and the influences of environment and culture on human variation. Acquired skills will be of value to any students interested in skeletal studies including archaeology, bioarchaeology, paleopathology, forensic science, vertebrate biology, biomedical sciences, and behavioral science.

ANTH 3800
History of Evolutionary Theory
3:3:0
* Prerequisite(s): [ANTH 101G or ANTH 1020] and (ENG 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing
Examines evolutionary history from pre-Darwinian time to the present. Explores the development of aspects of modern evolutionary theory, effects of cultural contexts, and both scientific and public controversies.

ANTH 3830
Biology and Culture
3:3:0 On Sufficient Demand
* Prerequisite(s): (ANTH 101G or ANTH 1020) and (ENG 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing
Explores the interactions of nature and nurture as a complex whole, rather than as mutually exclusive possibilities or separate streams of influence. Includes a significant research project.

ANTH 3850
Ethnographic Methods
3:3:0
* Prerequisite(s): ANTH 101G and (ENG 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing
Teaches qualitative research design and execution using ethnographic techniques. Includes the development and practice of person-centered interviewing, observational techniques, field research, focus groups, and case studies. Analyzes past and present ethnographic literature, and the writing and presentation of research results. Includes conducting and professionally presenting an original research project. Develops skills in problem-solving, thinking analytically, interacting with people different from oneself, reading critically and writing effectively.

ANTH 4120
History of Anthropological Thought
3:3:0 Fall
* Prerequisite(s): ANTH 101G and (ENG 2010 or ENGL 2020 with a minimum C+ grade) and University Advanced Standing
Surveys anthropological thought, theory and its philosophical roots from the nineteenth to the twentieth centuries. Focuses on the concepts and theoretical paradigms deployed in different social and intellectual conjunctures, as well as on the major debates that have formed the field and separated it from other social science disciplines.

ANTH 4130
Contemporary Theory and Debates
3:3:0 Spring
* Prerequisite(s): ANTH 101G and (ENG 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing
Explores social theory and other disciplines. Surveys current debate through exploration of the conceptual apparatus that are deployed and the issues that motivate current research. Prepares the student to knowingly engage contemporary anthropological literature’s.

ANTH 4175R
Current Topics in Anthropology
1 to 3:1 to 3:0 On Sufficient Demand
* Prerequisite(s): ANTH 101G and (ENG 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing
Presents selected topics in Anthropology and will vary each semester. Requires a project demonstrating competency in the specific topic. May be repeated for a maximum of 15 credits toward graduation.

ANTH 4282R
Archaeological Field Methods Practicum
1 to 9:0:5 to 45
* Prerequisite(s): [ANTH 2030 and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) or instructor approval] and University Advanced Standing
* Corequisite(s): ANTH 333R
Introduces students to archaeological field technique and a critical approach to the methods by which archaeology is conducted. Provides involvement in all phases of field excavation, lab processing, curation and preservation of archaeological remains, and data analysis. Provides students with hands-on training in archaeological, historical, bio-archaeological, and environmental research. Explores how to conduct archaeological survey, large-scale site excavation, date cultural materials, excavate mortuary sites and human burials, and document patterns of social complexity, subsistence, and material culture. Students must be prepared for strenuous outdoor work, including hiking, digging, carrying heavy loads, and processing field collections in laboratory settings. Includes day activities such as survey and excavation. Evenings are dedicated to seminar-style discussion and laboratory work. Involves periodic field trips to nearby archaeological and historic sites. May be repeated for a maximum of 27 credits. May be graded Credit/No Credit.

ANTH 490R
Independent Studies
1 to 3:1 to 3:0 On Sufficient Demand
* Prerequisite(s): For Behavioral Science Bachelor Degree students only; Instructor approval and University Advanced Standing
For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, an oral presentation, or other options as approved by instructor. May be repeated for a maximum of 6 credits.

Apprentice (APPR)
APPR 281R
Cooperative Work Experience
1 to 8:0:5 to 40 On Sufficient Demand
* Corequisite(s): APPR 285R
Designed for electrical construction apprentice majors. Provides paid, on-the-job work experience in the student's major. Work experience, the correlated class and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer and coordinator evaluations, on-site work visits, written assignments and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be graded credit/no credit.
Course Descriptions

APPR 285R Cooperative Correlated Class
1:1:0 On Sufficient Demand
* Corequisite(s): APPR 281R
Designed for electrical construction apprentice majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentation and written assignments. Completers should be better able to perform in their field of work or study.

Archaeology (ARCH)

ARCH 1100 Introduction to Archaeology 3:3:0 Fall
Introduces archaeological evidence revealing the diversity of human prehistory over the last 12,000 years. Tells the stories of the rise and fall of civilizations in all the primary centers of cultural development (the Middle East, Africa, Europe, Asia, Oceania, and North, Central, and South America) while simultaneously showcasing state-of-the-art archaeological methods used to reconstruct ancient economy, subsistence, politics, population, movement, violence, lifestyle, biology, and technology.

Art (ART)

ART 1010 Introduction to Visual Arts 3:3:0 Fall, Spring, Summer
Develops an appreciation of the visual arts by investigating the elements and principles of art, art criticism, art production, and the history of art. Includes written critiques and basic art projects. Requires students to identify works of art and describe their significance in writing. May be delivered hybrid.

ART 1020 Basic Drawing for Non-Majors 3:2:2 Fall, Spring, Summer
For non-majors. Introduces basic drawing techniques and stresses fundamentals of observation-based homework. Includes practice and skill building. Investigates basic black and white media such as graphite and charcoal. Requires sketchbook, in-class and home work assignments.

ART 1050 Photography I 3:2:3 Fall, Spring, Summer
Emphasizes the use of camera operation, including aperture and shutter speed adjustments to control exposure, depth of field, lenses, and camera format. Teaches how to see photographically, using elements of composition and lighting to make stronger images. May be delivered online. Software fee of $27 applies. Course fee of $27 for computers applies. Lab access fee of $31 applies.

ART 1110 Drawing I 3:2:4 Fall, Spring, Summer
* Prerequisite(s): AVC Major
For AVC majors. Introduces fundamental drawing concepts and media. Emphasizes mastery of basic drawing principles and integration of these principles into a personal drawing style through exposure to a variety of structured drawing experiences. Requires sketchbook, in-class and homework assignments.

ART 1120 2D Design 3:2:4 Fall, Spring, Summer
Core course for all AVC majors. Introduces the elements and principles of design. Studies two-dimensional formats as they relate to a series of different design problems. Uses principles such as line, shape, rhythm, contour, value, and contrast in creative assignments.

ART 1130 3 D Design 3:2:2 Fall, Spring, Summer
* Prerequisite(s): ART 1120
Presents a survey of the history and main lines of development and influential factors in three dimensional designs. Examines important designers, firms, and decisive turning points in the history of three dimensional designs. Emphasizes planning, purpose, and function through project oriented assignments. Teaches proper use of tools and materials. Course fee of $25 for materials applies.

ART 1210 Drawing for Illustration 3:2:4 Fall, Spring, Summer
* Prerequisite(s): ART 1110
Provides students with essential observational drawing skills used in illustration. Introduces techniques, stylization, abstraction, sketching, memory and compositional drawing. Stresses the importance of quality reference materials and files.

ART 1340 Sculpture I 3:2:2 Fall, Spring
Introduces methods and techniques of figurative clay sculpture. Students will construct armatures and build clay head and anatomy studies from the model. Includes firing and finishing techniques. Course fee of $20 for materials applies.

ART 1350 Ceramics I 3:2:2 Fall, Spring, Summer
Studies clay as an expressive medium. Emphasizes techniques of working with clay, including hand building, wheel throwing, glazing, and firing. Course fee of $30 for materials applies.

ART 1400 Graphic Computer Applications 3:2:2 Fall, Spring, Summer
Introduces concepts and software related to visual communication and the creation and reproduction of art. Teaches how to create and modify digital images using Adobe Photoshop. Also teaches basic design skills using Adobe Illustrator. Teaches basic page layout skills using InDesign. Covers basic software used in visual communications. May be delivered online. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 1410 Typography I 3:2:4 Fall, Spring
* Prerequisite(s): ART 1120, ART 1400. For DGM majors: DGM 1110, DGM 2250.
Teaches the principles of typographic design and communication, type selection, and type terminology. Addresses typographic history and the use of typography in modern design including its relationship to layout and grid structure. Teaches skills to allow students to professionally set type using industry standard software. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 1420 Introduction to Graphic Design 3:2:2 Fall, Spring, Summer
Serves as an introduction to graphic design for students interested in a Graphic Design major. Provides an understanding of basic principles needed for effective visual communication. Presents a survey of the graphic design industry. Explores the strengths and weaknesses of common graphic design applications (posters, collateral, brands, etc.).

ART 1630 Introduction to Landscape Painting 3:2:2 Fall, Spring, Summer
On Sufficient Demand
Teaches landscape painting and drawing techniques through direct exposure to area sites. Explores interior and exterior landscapes. Studies color, shape, relationships, light, and space. Emphasizes individual interpretation of subject matter using a variety of media. Community members welcome. Course fee of $10 for materials applies.

ART 1650 Watermedia I 3:2:4 Fall, Spring, Summer
Studies materials, techniques, and compositional methods of watercolor painting at a beginning level. Teaches the application of six basic techniques for the use of transparent watercolor materials. Includes lecture/ demonstration and studio time for application and evaluation. For majors and non-majors. Course Lab fee of $28 for materials applies.

ART 1690 Glass Design and Construction 3:2:2 Not Offered
Introduces materials, methods, and techniques of leaded glass, copper foil, and faceted glass construction. Covers design, cut, fit, and solder of glass projects. Emphasizes glass composition, historical glass and artists, critical analysis and design principles. Community members welcome. Course fee of $16 for materials, equipment applies.
ART 1700
Processes of Jewelry and Metal Design
3:2:2
Not Offered
Presents traditional methods and techniques of working with fine metals such as silver, gold, pewter, brass, and copper. Includes fabrication, construction, casting, enameling, and lapidary techniques. Community members welcome. Course fee of $30 for materials, equipment applies.

ART 1790
Dark Room Techniques
3:2:4
Fall, Spring, Summer
* Prerequisite(s): ART 1050
Introduces photography majors to traditional dark room processes, including development and printing methods. Teaches imagery through negative manipulation, diffusion, toning, and multiple exposure. Course fee of $27 for materials, equipment applies.

ART 1810
Introduction to Interior Design
3:3:0
Fall, Spring
For individuals wishing to develop interior design skills, be employed in the interior design industry, or develop their own interior design business. Overviews the interior design profession, client profiles and the design process. Covers principles and elements of design, evaluating design, color and lighting, fabric and pattern coordination, Studies American architecture and furniture styles, history and identification, and current design trends.

ART 1815
Historical Architecture and Interior Design
3:3:0
Not Offered
Studies interior design and its development and change through historical styles from prehistoric civilizations through the Victorian Era. Identifies major historical period styles, major architects, and designers. Covers furniture, lighting, and surface materials.

ART 1820
Interior Space Design
3:3:0
Fall
For individuals wishing to develop interior design skills, be employed in the interior design industry, or develop their own interior design business. Covers aesthetic and functional home design and space planning.

ART 1825
Modern Architecture—Interiors and Furnishings
3:3:0
Not Offered
* Prerequisite(s): ART 1810
Studies interior design and its development through historical styles from the Arts and Crafts movement to Deconstructivism. Covers architects, designers, textiles, lighting and surface materials.

ART 1830
Residential Interior Design
3:3:0
Spring
For individuals wishing to develop interior design skills, be employed in the interior design industry, or develop their own interior design business. Covers conceptualizing, designing, specifying and presenting residential interior client presentations. Includes business practices, building codes, portfolio preparation and advanced interior design concepts. Completers will have knowledge to be competent at mid-level interior design positions.

ART 200R
AVC Lecture Series
1:1:0
Fall, Spring
* Prerequisite(s): Declared AVC major
Offers weekly lectures exploring art and visual communication. Addresses art education, art history, ceramics, drawing, graphic design, illustration, painting, photography, and sculpture. May be repeated for a maximum of 4 credits toward graduation. Course fee of $50 for support applies.

ART 2110
Drawing II
3:2:4
Fall, Spring
* Prerequisite(s): (ART 1110 or ART 1020) and ART 1120
Emphasizes continued mastery of drawing principles and further integration of these principles into a personal drawing style. Provides exposure to a variety of structured drawing experiences. Introduces color into drawing vocabulary. Course fee of $31 for materials applies.

ART 219R
Special Topics
1 to 3:1 to 3:0 to 6
Elective course for AVC students. Presents seminars and workshops from experts in industry. May range from a single weekend to a full semester. Repeatable for offerings of different content. A maximum of 3 credits may apply toward graduation. Lab access fee of $15 for computers applies.

ART 2200
Illustrative Media and Techniques I
3:2:4
Fall, Spring
* Prerequisite(s): ART 1350 or Department Approval
Introduces the practice, study, and application of a variety of oil painting techniques used in the production of illustration art. Explores the development of mixed media processes and techniques using oil paint in combination with other materials and media will be explored.

ART 2210
Imagination and Visual Literacy
3:2:3
Fall, Spring
* Prerequisite(s): ART 1210
Teaches visual problem solving methods that can be used to generate creative and conceptually strong images. Focuses on the difference between merely generating an idea and manipulating that idea for more effective results. $25 course fee for support applies.

ART 2220
Imagination and Visual Literacy
3:2:4
Fall, Spring
* Prerequisite(s): ART 1210
Teaches visual problem solving methods that can be used to generate creative and conceptually strong images. Focuses on the difference between merely generating an idea and manipulating that idea for more effective results. $25 course fee for support applies.

ART 2230
Illustrative Media and Techniques II
3:2:4
Fall, Spring
* Prerequisite(s): ART 2230
Introduces the study, practice and application of aqueous painting media used in the production of illustration art. Focuses on acrylic, gouache, casein or watercolor painting techniques. In addition, develops mixed media processes and techniques in combination with aqueous painting media.

ART 2250
Drawing for Animation
3:2:4
Fall, Spring
* Prerequisite(s): ART 1110
Introduces the drawing of basic shapes and forms used to create solidly-constructed, animated characters. Emphasizes understanding and communicating movement of the human form as shapes and drawing imaginatively. Course fee of $100 for support applies.

ART 2260
Digital Painting for Illustration I
3:2:4
Fall
* Prerequisite(s): ART 1110, ART 1400
Introduces the digital illustrator/painter to the application of various animation software programs such as basic raster, vector, and 3D. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 2270
Anatomy and Figure Structure
3:2:4
Fall, Spring
* Prerequisite(s): ART 1110, ART 1120, ART 1210, AVC major or department approval.
Studies the anatomy of the human figure; dynamics, posing and motion. Emphasizes figure-drawing skills such as extreme foreshortening, perspective and drawing the gestural motion of the human form. Uses live models (draped and/or undraped). Course Lab fee of $120 for support applies.

ART 2340
Sculpture II
3:2:2
Spring
* Prerequisite(s): ART 1340 or Department Approval
Teaches intermediate techniques of clay sculpture, including armature construction, base relief, figurative sculpture based on human and animal forms. Develops the skills to create a sculpture from clay model to finished piece. Course fee of $25 for materials applies.

ART 2350
Ceramics II
3:2:2
Fall, Spring
* Prerequisite(s): ART 1350 or Department Approval
Teaches intermediate and advanced techniques of wheel throwing, hand-building, and glazing. Emphasizes clay as an artistic medium. Includes decoration of clay shapes with engobes, slip, glaze, overglazes, etc. Develops the skills to create a quality finished ceramic piece. Requires students to provide all materials and equipment except wheels. Course fee of $40 for materials applies.
ART 2400
Production Design
3:2:4 Fall, Spring
* Prerequisite(s): ART 1110, ART 1120, ART 1400, ART 1420

Introduces production techniques used in the publishing industry. Teaches digital layout and pasteup, trapping, imposition, proofing, color reprographic processes, digital file preflighting and terminology. Includes the practical application of learned skills through design projects. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 2430
Branding I
3:2:4 Fall, Spring
* Prerequisite(s): ART 1110, ART 1410, ART 1420, ART 2400

Addresses introductory concepts relating to branding campaigns for business entities. Teaches research skills and the influence research has on the creation of brand identities, including logo design, the core of most branding campaigns. Teaches brainstorming, conceptual skills, and the use of industry-standard software for the design and production of an identity system across a broad range of media, including stationery and other marketing campaign components. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 2440
Motion Graphics I
3:2:3 Fall, Spring
* Prerequisite(s): (ART 1020 or ART 1110), ART 1120, ART 1400, ART 1420

Teaches basic principles and techniques of 2D animation with an emphasis on typography. Includes discussion of storytelling to solve client needs. Includes learning 2D industry software to render video and audio. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 2480
UI/UX Design I
3:2:4 Fall, Spring
* Prerequisite(s): ART 1410, ART 2400

Teaches basic principles and techniques of interface design for the Web. Includes discussion of usability and information architecture to solve client needs. Includes learning HTML tags and CSS styling, image preparation for the Web, and using Adobe Dreamweaver to create and upload web-ready files. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 2490
Portfolio I
3:2:2 Spring
* Prerequisite(s): ART 1110, ART 1120, ART 1410, ART 1420
* Prerequisite(s) or Corequisite(s): ART 2400

Teaches the preparation of a portfolio for the BFA portfolio review and job interviews. Provides opportunities to evaluate and develop a format for professional presentations. Presents job-seeking skills pertinent to the visual arts industry. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 2620
Color Theory
3:2:4 Fall, Spring
* Prerequisite(s): ART 1120

Explores the principles of color theory as related to the visual arts. Introduces theories of color, color systems, and the psychology of color through a sequence of exercises and projects.

ART 2630
Painting I
3:2:4 Fall, Spring
* Prerequisite(s): (ART 1110 or ART 1020) and ART 1120; ART 2620 recommended

Introduces fine art painting at an intermediate level. Includes lecture, demonstration, and studio time for the production of personal style in relation to the media. Course fee of $25 for materials applies.

ART 2640
Painting II
3:2:4 Fall, Spring
* Prerequisite(s): ART 1120, ART 2620, and ART 2630

Presents advanced traditional and non-traditional oil painting techniques. Emphasizes the techniques for personal exploration. Encourages development of individual approach to the media. Course fee of $25 for materials applies.

ART 2650
Watermedia II
3:2:4 Fall, Spring
* Prerequisite(s): ART 1650, ART 2620 recommended

Explores the principles of color theory as related to the visual arts. Introduces theories of color, color systems, and the psychology of color through a sequence of exercises and projects.

ART 2660
Printmaking I
3:2:4 Fall, Spring
* Prerequisite(s): ART 1110 or ART 1020

Introduces fine art printmaking and focuses on beginning techniques, processes and materials. Explores the role of traditional and contemporary printmaking as a fine art medium. Focuses on the development of personal and individual imagery, craftsmanship, the use of tools and materials, and printmaking terminology. Includes intaglio printing and relief printing. Course fee of $30 for materials applies.

ART 2680
Photography II
3:2:4 Fall, Spring
* Prerequisite(s): ART 1790

Extends skills and principles learned in Introduction to Photography. Continues the exploration of light and composition through personal expression to make stronger images. Emphasizes technical control of exposure, development, and aesthetic presentation in the context of the Zone System. Teaches processes of archival printing and presentation. Emphasizes use of large format cameras. Course fee of $27 for material, equipment applies.

ART 2700
Photography I
3:2:4 Fall, Spring
* Prerequisite(s): ART 1790

Introduces color photography and color theory using digital photography and Adobe Photoshop as well as inkjet printing and scanning. Explores cross processing and other development manipulations. Discusses development of color photography, and color perception as applied to specific themes. Encourages creativity and personal expression. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 281R
Art and Visual Communications Internship
1 to 6:0:5 to 30 Fall, Spring, Summer
* Prerequisite(s): Departmental Approval

Combines classroom theory with related, practical job experience. Students work as employees of a business, agency, or institution while enrolled in classes related to their career/major. Course content is individualized with students setting objectives in concert with their internship advisor and their workplace supervisor. Internship enrollment must be pre-approved by the area coordinator and department internship advisor. Number of hours worked per week will determine credit hours granted. A maximum of 6 credits may apply towards graduation. May be graded credit/no credit.

ART 291R
Independent Study
1 to 3:0 to 3:0 to 9 Fall, Spring, Summer
* Prerequisite(s): Sophomore and above students only

Provides an opportunity for second year and above students to do individual research and experimentation within the areas of the AVC Program. Limited to advanced work beyond that which can be completed in existing available classes. Requires that a proposal be submitted and approved by the department prior to enrollment. May be repeated for a maximum of three credits toward graduation.
Course Descriptions

ART 3005  
Ceramic History Trends and Practices  
3:2:2  
Fall  
* Prerequisite(s): ART 1350, ART 2350, and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval  
Investigates important movements, approaches, cultures, and techniques in the history of ceramic production. Studies artists, trends, and issues in contemporary ceramics.

ART 300R  
Special Topics in Art  
1 to 3:0 to 3:0 to 9  
Fall, Spring, Summer  
* Prerequisite(s): University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, and department approval  
Addresses emerging topics, issues, and developments related to the visual arts. Includes lectures, demonstrations, and studio time for application and evaluation. Encourages development of personal style in relation to the topic. May be repeated for a maximum of 9 credits toward graduation.

ART 3010  
Art Theory and Criticism  
3:3:0  
Fall  
* Prerequisite(s): ARTH 2710, ARTH 2720, and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval  
Examines art theories, explores ideas related to content and understanding the meaning in art by emphasizing interpretation and judgment. Integrates theories and concepts to personal work through critical writings and artist statements.

ART 311R  
Drawing III  
3:2:4  
Fall, Spring  
* Prerequisite(s): ART 2110 and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval  
Continues the exploration of the technical skills and conceptual development of drawing as a creative medium. Focuses on the mastery of drawing skills in color and includes demonstrations, lectures and active participation in the critical process. Emphasizes cultivating personal expression and independent serial work. May be repeated for a maximum of 6 credits toward graduation. Course fee of $32 for materials applies.

ART 3200  
Conceptual Illustration  
3:2:4  
Spring  
* Prerequisite(s): ART 2240, matriculated into the BFA in Arts and Visual Communication: Illustration emphasis program or area coordinator approval) and University Advanced Standing  
Introduces conceptual illustration and problem solving through the use of visual symbols, metaphors and icons. Course fee of $20 for support applies.

ART 3230  
3-D Computer Modeling  
3:2:2  
Fall  
* Prerequisite(s): ART 1400 or DGM 1110) and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval  
Teaches basic techniques of computer software-based 3D modeling, focusing primarily on Polygon and Subdivision Surface workflows. These techniques are applicable to virtually all modern 3D software packages. Includes basic lighting, surfacing, and rendering techniques. This course will not include computer animation techniques. Software fee of $27 applies. Lab access fee of $31 for computers applies. Software fee of $61 applies.

ART 324R  
Children's Book Illustration  
3:2:4  
Fall  
* Prerequisite(s): (ART 2240, matriculated into the BFA in Arts and Visual Communication: Illustration emphasis program or area coordinator approval) and University Advanced Standing  
Teaches the processes and techniques used in the execution of children's book illustrations. Emphasizes stylizing, simplifying, exaggerating forms, and organizing pictorial space. Focuses on the art of narrative storytelling and continues the study of media and techniques relative to storybook illustration. May be repeated for a maximum of 6 credits toward graduation.

ART 325R  
Flash Animation for Illustration  
3:2:4  
Fall, Spring  
* Prerequisite(s): (ART 1110 and ART 1400 or DGM 1620) and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval  
Provides the student of illustration a firm foundation to create simple to moderately complex animations using Adobe Flash. Develops understanding of Flash working environment, Motion Tween and Classic Tween, and squash and stretch timing. May be repeated for a maximum of 6 credits toward graduation. Software fee of $27 applies. Lab access fee of $31 for software applies.

ART 3260  
Digital Painting for Illustration II  
3:2:4  
Spring  
* Prerequisite(s): ART 2260 and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval  
Focuses on creating quality digital paintings/illustrations in a studio setting. Studies the more subtle features of the software applications. Practices advanced conceptual and problem solving skills. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 3310  
Rendering the Human Head  
3:2:4  
Fall, Spring  
* Prerequisite(s): ART 1110, ART 1120, and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval  
Develops proficiency in rendering the human head in a variety of approaches and techniques. Addresses geometric and planar construction, proportion, lighting, features, and expression. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of $93 for support applies.

ART 3320  
Painting the Human Head  
3:2:4  
Spring  
* Prerequisite(s): ART 237R and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval  
Continues the development of rendering skills acquired in ART 327R (Head Drawing). Emphasizes mixing flesh tones, managing values, and investigates a variety of approaches to painting the human head. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of $93 for support applies.
Course Descriptions

ART 334R
Branding II
3:2:4 Fall, Spring
* Prerequisite(s): University Advanced Standing; formal acceptance to the AVC Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval
Teaches concept and theory behind brand identity and package design. Covers how to conduct research to ensure designs are appropriate and powerful. Includes creation of designs that use three-dimensional space. Repeatable for up to 6 credits toward graduation. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 3400
Elementary Art Education Methods
3:2:2 Fall
* Prerequisite(s): University Advanced Standing
For elementary and early childhood education majors and other interested students or community members. Introduces concepts and techniques necessary to teach art education to children in the primary grades through middle school. Applies the four disciplines of aesthetics, art criticism, art history, and art production in drawing, painting, sculpture, printmaking, and crafts. Includes classroom and materials management, and age appropriate curriculum development within contemporary practices. Course Lab fee of $26 for materials applies.

ART 341R
Typography II
3:2:4 Fall, Spring
* Prerequisite(s): University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval
Develops advanced skills in the use of typography and layout to communicate the printed word in the editorial design arena, including editorial columns, unique page layouts for feature articles, mastheads, and cover designs for magazines. Examines editorial terminology and executes designs that are appropriate for the scope of the publication and its audience. Teaches technical competence including pagination, style sheets, and industry-standard page layout software. Repeatable for up to 6 credits toward graduation. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 3500
Secondary Art Education Methods I
3:2:2 Fall
* Prerequisite(s): ART 1110, ART 1120, University Advanced Standing and Matriculation into Art Education. * Corequisite(s): EDSC 4550
Introduces students to the materials, methods, and resources related to teaching middle school and high school visual arts. Emphasizes the characteristics and components of a quality art program. Designed for the art major pursuing teacher licensure for grades 7-12. Course Lab fee of $16 for materials applies.

ART 3510
Secondary Art Education Methods II
3:2:2 Spring
* Prerequisite(s): ART 3500 with a grade of B - or higher and University Advanced Standing. Art Education Majors only.
Investigates theories and models of curriculum development in the visual arts for middle school and high school students. Includes implementation of curriculum development, unit/lesson planning, and evaluation strategies in the visual arts. Prepares prospective art teachers to plan, organize, and promote quality art programs and curricula. Course Lab fee of $22 for materials applies.

ART 361R
Figure Drawing
3:2:4 Fall, Spring, Summer
* Prerequisite(s): ART 2270 and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval
Presents skills and techniques related to drawing the human figure. Uses live models (draped and undraped). May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of $150 for support applies.

ART 363R
Painting III
3:2:4 Fall
* Prerequisite(s): ART 2640 and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval
Emphasizes individual problem solving and independent growth within a conceptual setting. Introduces theoretical issues in contemporary painting and their application to personal approaches to painting. May be repeated for a maximum of 6 credits toward graduation. Course fee of $25 for materials applies.

ART 364R
Figure Painting
3:2:4 Spring
* Prerequisite(s): (ART 361R, matriculated into the BFA in Arts and Visual Communication: Illustration emphasis program or area coordinator approval) and University Advanced Standing
Explores fundamental methods and techniques of oil painting from the figure using live models (draped and undraped). Emphasizes mastery of representational depictions of the figure. Includes themes of abstraction, interpretation, and narrative uses of the figure. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of $150 for support applies.

ART 365R
Watermedia III
3:2:4 Fall
* Prerequisite(s): ART 2650 and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval
Emphasizes experimental approach to watermedia, acrylic, and mixed media. Provides opportunity for independent exploration and development of personal style coupled with refinement of technical skills. May be repeated for a maximum of 6 credits toward graduation. Course fee of $30 for materials applies.

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ART 367R
Printmaking II
3:2:4
Spring
* Prerequisite(s): (ART 1110 or ART 1020), ART 2680, and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval
Continues to develop, enhance and create proficiency in printmaking skills through intermediate techniques, processes and materials. Establishes the role of traditional and contemporary printmaking as a fine art medium. Includes challenging and complex projects with more advanced technical skills than Printmaking I. Strengthens the development of personal and individual imagery, including the importance of craftsmanship, the usage of additional tools/materials and an expanding printmaking vocabulary. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of $34 for materials applies.

ART 368R
Printmaking III
3:2:4
Fall, Spring
* Prerequisite(s): (ART 1110 or ART 1020), ART 2680, and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval
Continues the exploration of fine art printmaking through advanced techniques, processes and materials, including the mixing/printing of color inks and multiple plate registration. Strengthens the development of personal and individual imagery, including the importance of craftsmanship, the usage of new tools/materials and an expanding printmaking vocabulary. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of $34 for materials, equipment applies.

ART 371R
Historical Photographic Processes
3:2:4
Fall
* Prerequisite(s): University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by program portfolio review, or department approval
Teaches alternative photographic processes with an emphasis on early photographic printing techniques. Includes preparation and exposure of paper using various alternative techniques through a variety of hands-on projects. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of $66 for materials, equipment applies.

ART 3730
Photographic Lighting II
3:2:4
Spring
* Prerequisite(s): University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by program portfolio review, or department approval
Focuses on product lighting and camera techniques. Develops artistic skill through the creation of images that can be used in commercial settings, specifically in advertising. Course Lab fee of $30 for materials, equipment applies.

ART 3740
Fine Art Photography
3:2:3
Fall, Spring
* Prerequisite(s): ART 1050 and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval
Integrates all previously taught image-making skills, and encourages students to further develop their personal vision through a more developed project. Examines contemporary trends, styles, and critical issues through slide presentations, readings, critiques, and class discussions. Course Lab fee of $30 for materials, equipment applies.

ART 3750
Advanced Digital Imaging
3:2:3
Fall
* Prerequisite(s): ART 2720 and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval
Integrates Photoshop as a development and manipulation tool for image making. Investigates technical concerns of digital workflow, capture, and output for commercial and fine art applications. Strong emphasis on using Photoshop as a creative tool in personal artistic expression. Discusses more advanced uses of selection tools, color correction, layer and channel manipulations. Teaches processes and concepts through slide presentations, readings, critiques and class discussions. Software fee of $27 applies Lab access fee of $31 for computers applies.

ART 3800
Low-Fire Ceramics
3:2:2
Spring
* Prerequisite(s): ART 1350, ART 2350, and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval
Explores low-temperature clay and glazing techniques, as well as the practical and aesthetic considerations of their use. Addresses the operation and maintenance of electric kilns.

ART 3810
Ceramic Technologies
3:2:2
* Prerequisite(s): ART 1350, ART 2350, and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval
Explores advanced training in the creation of original and compelling character designs for artistic use and as icons for private and corporate use. May be repeated for a maximum of 6 credits toward graduation.
ART 429R
3D Illustration
3:2:4 Spring
* Prerequisite(s): ART 433, or University Advanced Standing.
This course introduces students to the techniques and applications of 3D modeling software in the context of digital illustration. Students will learn how to use 3D modeling software to create digital illustrations that are used as reference for 2D illustration. Studies model detailing, texture mapping, lighting, and rendering of 3D computer reference or as standalone 3D illustration. May be repeated for a maximum of 6 credits toward graduation. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 4360
Mold Making and Casting
3:2:2 Spring
* Prerequisite(s): ART 1120, ART 1130, ART 240, and University Advanced Standing.
Covers the basic process of casting and the construction of molds. Emphasizes the use of molds in the development of sculptural ideas. Course fee of $30 for materials applies.

ART 4370
Hand Building Ceramics
3:2:2 Fall
* Prerequisite(s): ART 2350 and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval.
Designed for students interested in three-dimensional art forms. Emphasizes hand building design and techniques in creating both sculptural and vessel projects in water-based clay. Teaches advanced methods of coil, slab, and pinch construction. Utilizes slump molding, rolled slab, cylinders, and molds in creation of finished clay products. Course fee of $30 for materials applies.

ART 443R
Special Topics in Graphic Design
3:2:4 Spring
* Prerequisite(s): ART 341R, ART 343R, and University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval.
Addresses emerging topics, issues and technology relevant to graphic design. Addresses these issues through lecture and hands-on project development. May be repeated for a maximum of 6 credits toward graduation. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 4490
Portfolio II
3:2:2 Spring
* Prerequisite(s): ART 341R, ART 343R, and University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval.
Integrates all previous image making skills acquired into an exit portfolio. Assists students to improve and refine their portfolios in preparation for employment. Provides students the skills to develop a brand identity for themselves to further enhance their employability. Software fee of $27 applies. Lab access fee of $31 for computers applies.

ART 463R
Painting IV
3:2:4 Spring
* Prerequisite(s): ART 363R and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval.
Focuses on the development of interpretation and conceptual image making. May be repeated for a maximum of 6 credits toward graduation.

ART 465R
Watermedia IV
3:2:4 Fall, Spring
* Prerequisite(s): ART 365R and University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval.
Continues the development of interpretation and conceptual image making. May be repeated for a maximum of 6 credits. Course fee of $30 for materials applies.

ART 470R
Advanced Photo Studies
3:2:4 Fall
* Prerequisite(s): University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval.
Integrates all previous image making skills acquired into the students' visual vocabulary. Encourages students to further develop their own personal vision through more developed projects. Examines contemporary trends, styles, and critical issues through slide presentations, readings, critiques and class discussions. Focuses on the development of interpretative and conceptual image making. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of $30 for materials, equipment applies.

ART 471R
Photographic Illustration
3:2:3 Spring
* Prerequisite(s): University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval.
Examines the possibilities of the image beyond two-dimensional photographic representation. Focuses on the development of interpretation and conceptual image making. May be repeated for a maximum of 6 credits toward graduation.

ART 474R
Advanced Figure Drawing
3:2:4 Fall
* Prerequisite(s): University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval.
Explores contemporary trends, styles, and critical issues through slide presentations, readings, critiques and class discussions. Focuses on the development of interpretative and conceptual image making. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of $30 for materials, equipment applies.

ART 4750
Exploratory Photographic Processes
3:2:4 Spring
* Prerequisite(s): University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval.
Explores deconstruction of the image in both a formal and conceptual process. Analyzes liquid emulsions, mixed media, encaustic, and alternative surfaces and materials. Examines the possibilities of the image beyond two-dimensional traditional photography. Course Lab fee of $30 for materials, equipment applies.
ART 481R
Art and Visual Communications Internship
1 to 6:0:5 to 30
Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing; formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree and departmental approval

Combines classroom theory with related, practical job experience. Students work as employees of a business, agency, or institution while enrolled in classes related to their career/major. Course content is individualized with students setting objectives in concert with their internship advisor and their workplace supervisor. Internship enrollment must be pre-approved by the area coordinator and department internship advisor. Number of hours worked per week will determine number of credits granted. May apply a maximum of 6 credits toward graduation. May be graded credit/no credit.

ART 4890
Senior Seminar
3:3:0
Fall
* Prerequisite(s): University Advanced Standing; Senior status and formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval

For AVC majors. Covers standard policies and procedures used in the creation and marketing of visual arts. Includes estimating, pricing, trade customs, ethical standards, contracts, and other legal rights and issues. Explores job opportunities and self-employment options for visual artists.

ART 491R
Independent Study
1 to 3:0 to 3:0 to 9
* Prerequisite(s): University Advanced Standing, formal acceptance to the AVC Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, and department approval

Provides an opportunity for upper division students to do individual research and experimentation within the areas of the AVC Program. Study is limited to advanced work beyond that which can be completed in existing available classes. A proposal must be submitted and approved by the department prior to enrollment. May apply a maximum of 3 credits toward graduation.

ART 4990
Senior Studio
3:2:2
* Prerequisite(s): University Advanced Standing, Senior status, formal acceptance to the AVC Bachelor of Arts (BA) or Bachelor of Science (BS), and department approval

For AVC majors with senior status. Combines and integrates concepts, methodologies and skills developed in previous AVC course work, through the completion of a comprehensive project. Requires students to develop their own project/portfolio in consultation with a faculty advisor. Finished projects will demonstrate individual student skills and interests.

ART 499R
BFA Project
3:2:4
Fall, Spring
* Prerequisite(s): University Advanced Standing; Senior status and formal acceptance to Bachelor of Fine Arts (BFA) program by portfolio review or department approval

Focuses on the development and execution of a gallery exhibition or professional portfolio. Includes collaborative work with a gallery/museum professional in preparation of the exhibition's public viewing. May be repeated for a maximum of 6 credits toward graduation.

Art History (ARTH)

ARTH 2710
History of Art to the Renaissance
3:3:0
Fall, Spring, Summer
* Prerequisite(s): ARTH 2710 (ARTH 2720 recommended), ENGL 1010, and University Advanced Standing

Studies major styles, cultural influences, and broad cultural influences on art. Includes discussions about the rise of Christianity, the Romanesque and Gothic periods as well as the influences of Greco-Roman culture over the centuries. Includes lectures and class discussion about classical art within its broad cultural framework.

ARTH 271H
History of Art to the Renaissance
3:3:0
On Sufficient Demand
Covers major trends in Western art from the Paleolithic period to the Gothic era, including elements of political, religious, cultural, literary, and philosophical elements as they impacted the development of art.

ARTH 2720
History of Art from the Renaissance
3:3:0
Fall, Spring, Summer
Covers major trends in Western art, from the Renaissance through the Modern era, including elements of political, religious, cultural, literary, and philosophical elements as they impacted the development of art.

ARTH 272H
History of Art from the Renaissance
3:3:0
On Sufficient Demand
Covers major trends in Western art, from the Renaissance through the Modern era, including elements of political, religious, cultural, literary, and philosophical elements as they impacted the creation of art.

ARTH 2800
Introduction to Art History Research and Methodology
3:3:0
* Prerequisite(s): ARTH 2720 (ARTH 2710 recommended), ENGL 1010

Develops needed skills to research in various fields related to the visual arts. Teaches how to prepare and organize a research paper. Focuses on historical methodologies. Studies critical reading, thinking, and writing. It is strongly recommended that students take this class by their second year or before taking upper-division Art History courses.

ARTH 3010
History of Design and Visual Arts
3:3:0
Fall
* Prerequisite(s): ARTH 2710, ENGL 1010, (AVC Sophomore status or departmental approval), and University Advanced Standing

Presents a history of graphic design, illustration, and photography apart from the study of traditional art history. Explores the impact of major movements, technologies, and innovations on present-day graphic design. Includes lectures, group projects, and field trips.

ARTH 3015
Ancient Art of Egypt and the Near East
3:3:0
* Prerequisite(s): ARTH 2710 (ARTH 2720 recommended), ENGL 1010, and University Advanced Standing

Studies the art and architecture of ancient Egypt and various cultures of the Mesopotamian region. Explores the broader cultural, historical, and religious events and developments of the cultures and periods covered. Includes lectures and class discussions.

ARTH 3020
Classical Art and Architecture History
3:3:0
Spring
* Prerequisite(s): ARTH 2710 (ARTH 2720 recommended), ENGL 1010, and University Advanced Standing

Studies the art and architecture of Ancient Greece, Etruria, and Rome. Explores the influences on classical culture as well as the influences of Greco-Roman culture over the centuries. Includes lectures and class discussion about classical art within its broad cultural framework.

ARTH 3030
Medieval Art and Architecture History
3:3:0
Fall
* Prerequisite(s): ARTH 2710 (ARTH 2720 recommended), ENGL 1010, and University Advanced Standing

Studies major styles, cultural influences, and developments in the arts of the middle ages. After an introduction to the aftermath of the fall of Rome and the rise of Christianity, the Romanesque and Gothic periods are investigated in detail. Includes lecture and class discussions.

ARTH 3040
Renaissance Art History
3:3:0
Fall
* Prerequisite(s): ARTH 2710 (ARTH 2720 recommended), ENGL 1010, and University Advanced Standing

Studies art and architecture in Italy between 1250 and 1550, and explores artistic style, patronage, historical influences, and broad cultural influences on art. Includes lectures and class discussion on the major art works and artists in Florence, Rome and Venice.
Course Descriptions

ARTH 3050  Baroque Art and Architecture History 3:3:0  Spring
* Prerequisite(s): ARTH 2720 (ARTH 2710 recommended), ENGL 1010, and University Advanced Standing

Studies major art works and artists in Italy, Spain, and France during the 17th Century. Explores the artistic, historical, religious, and broad cultural influences on the art of this period.

ARTH 3060  Nineteenth-Century Art History 3:3:0  Spring
* Prerequisite(s): ARTH 2720 (ARTH 2710 recommended), ENGL 1010, and University Advanced Standing

Studies leading artists and movements of the 19th century, emphasizing artistic developments in France between 1780 and 1900. Explores the broad historical, social, cultural, and philosophical changes that took place and influenced the visual arts of the century. Includes lecture and class discussions.

ARTH 3070  Modern Art and Architecture History 3:3:0  Fall
* Prerequisite(s): ARTH 2720, ENGL 1010, and University Advanced Standing

Studies leading artists, artworks, and movements. Explores the broad cultural, historical, and philosophical influences on modern art and architecture. Includes lectures and class discussions on modern art and architecture. May be delivered online.

ARTH 3080  History of Architecture 3:3:0  Spring
* Prerequisite(s): (ARTH 2710 or ARTH 2720), ENGL 1010, and University Advanced Standing

Surveys developments in architecture over the centuries, focusing on a variety of periods and leading innovators. Includes the role of technology as well as the broad cultural background in which the architecture was created.

ARTH 309G  Introduction to Non Western Ancient Art 3:3:0  Spring
* Prerequisite(s): ARTH 2720, ENGL 1010, and University Advanced Standing

Introduces students to the art and architecture of non-western cultures such as China, Japan, Africa, India, the Middle East, Oceania, and/or the Americas, based on faculty expertise. Discusses the religious, cultural, political, and philosophical contexts in which the art and architecture were produced. Requires reading, informal and formal writing, and tests.

ARTH 3100  History of American Art and Architecture 3:3:0  Fall
* Prerequisite(s): (ARTH 2710 or ARTH 2720), ENGL 1010, and University Advanced Standing

Studies leading artists, architects and movements in America from the colonial era to the 1950s. Explores the aesthetic, social, political, and technological changes that impacted the development of art and architecture in America, with an emphasis on the styles and movements of the nineteenth and twentieth centuries. Includes lecture and class discussions.

ARTH 3110  The History of Illustration 3:3:0  Fall
* Prerequisite(s): University Advanced Standing

Surveys the history of illustration as visual communication. Discusses major movements and the influence of technological advancements in printing and broadcast media on the field of illustration. Focuses primarily on the period from 1860 to the present.

ARTH 3120  History of Contemporary Art 3:3:0  Spring
* Prerequisite(s): (ARTH 2710 or ARTH 2720), ENGL 1010, and University Advanced Standing

Studies themes and trends related to contemporary art. Explores the diverse influences that impacted art from late modernism to the twenty-first century. Emphasis will be given to understanding the pluralism of international contemporary art from the last three decades. Includes lecture and class discussions.

ARTH 3200  The History of Photography 3:3:0  Fall, Spring
* Prerequisite(s): (ARTH 2710 or ARTH 2720) and University Advanced Standing

Traces the different directions photography has taken since its inception, using the social and cultural environment as a context. Investigates the ever-increasing use of photography by artists in the creative process from the first uses of the camera obscura to the present. Discusses the developments that set the stage for the "invention" of photography and how photography changed the role of artists in the 19th and 20th centuries. Covers documentary photography and the rise of fine art photography as separate art forms.

ARTH 3300  Introduction to Museum Studies 3:3:0
* Prerequisite(s): Students must be a declared AVC major (or admittance to class by instructor) and have taken either ARTH 2710 or ARTH 2720, University Advanced Standing.

Introduces students to theoretical knowledge and practical skills needed to work in the museum environment. Teaches the basic functions and operations of museums, as well as art historical connections to these nonprofit organizations.

ARTH 3400  Arts Management 3:3:0  Fall
* Prerequisite(s): (Declared AVC major or instructor approval) and University Advanced Standing

Studies the arts from managerial, economic, ethical, and cultural viewpoints. Topics will include such concepts as non-profit and commercial institutions, arts accessibility, audience development, organizational models, and leadership.

ARTH 391R  Art History Seminar 3:3:0
* Prerequisite(s): (ARTH 2710 or ARTH 2720), ARTH 2800, ENGL 1010, and University Advanced Standing

Explores topics within Art and Architectural History. Topics will change each semester to reflect the research activities and interests of the instructor (e.g., "The Life and Art of Michelangelo," "The Current State of Gender Studies in Art History"). May be repeated for a maximum of 6 credits toward graduation.

American Sign Language (ASL)

ASL 1000  Introduction to the Deaf-World 3:3:0  On Sufficient Demand
Focuses on the nature, make up, and significance of the Deaf-World as a linguistic and cultural minority group. Gives significant attention to the different ways that deaf people form a minority group thereby adding diversity to society at large. Also addresses the diversity within the group and the sociological factors that affect its makeup.

ASL 1010  Beginning American Sign Language I 4:4:1  Fall, Spring, Summer
Introduces American Sign Language (ASL) to students with no previous experience with ASL. Employs an immersion approach to language learning. Emphasizes basic expressive and receptive conversational skills. Includes introduction to American Deaf culture. Requires weekly lab. Lab access fee of $10 applies.

ASL 1020  Beginning American Sign Language II 4:4:1  Fall, Spring, Summer
* Prerequisite(s): Students should have equivalent knowledge of ASL 1010
Builds on the experiences in ASL 1010. Emphasizes basic expressive and receptive conversational skills through active student participation. Continues introduction to American Deaf culture. Employs an immersion approach to language learning. Requires a weekly lab. Lab access fee of $10 applies.
ASL 115R
ASL Conversation I
1:1:0
Offers novice ASL users opportunities to enhance their proficiency in the target language by focusing on production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen comprehension for natural conversational flow. Contrasts with all other first-year courses which must strive to produce mastery of the whole range of language acquisition components. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of conversational opportunities. Increases mastery of lexical items through increased frequency of use. May be repeated for a maximum of 3 credits toward graduation.

ASL 2010 LH
Intermediate American Sign Language I
4:4:1
Prerequisite(s): Students should have equivalent knowledge of ASL 1020
Reviews and builds upon the grammar and conversation skills learned in the first year courses. Concentrates on understanding and acquiring more advanced conversational proficiency in ASL. Emphasizes the use of various kinds of ASL classifiers in the function of describing objects and in providing locative information. Analyzes Deaf culture with an emphasis on the struggles of this linguistic minority with a majority controlled educational establishment with particular attention to the effects on individual Deaf lives. Lab access fee of $10 for applies.

ASL 202G HH
Intermediate American Sign Language II
4:4:0
Prerequisite(s): Students should have equivalent knowledge of ASL 2010
Continues applied conversation use of ASL through literature, narratives, poetry, and creative sign play. Analyzes ASL grammatical principles and Deaf cultural experiences to explore and understand various underlying metaphors found in ASL literature. Requires Deaf community exposure and involvement. Lab access fee of $10 applies.

ASL 2030
Advanced Fingerspelling
1:1:0
Prerequisite(s): ASL 1020
Focuses on the patterns of ASL fingerspelling, one of the hardest ASL skills to master. Designed to increase student's ability to accurately produce and comprehend ASL fingerspelling. Also gives attention to the nature and application of fingerspelling within the sociocultural context of the Deaf-World. Taught in ASL.

ASL 2040
ASL Numbers
1:1:0
Prerequisite(s): ASL 1020
Focuses on the complex rule systems governing ASL numbers as used in a wide range of settings. Designed to increase students' ability to accurately produce and comprehend contextually situated ASL numbers. Taught in ASL.

ASL 2050
Advanced ASL Grammar
3:3:0
Prerequisite(s): Students should have equivalent knowledge of ASL 202G
Explores the grammar of ASL focusing on areas typically difficult for English speakers, particularly ASL classifiers. Provides extensive instruction and opportunity for students to improve both comprehension and production through regular interaction. Taught in ASL. Lab access fee of $10 applies.

ASL 2060
Using Space in ASL
3:3:1
Prerequisite(s): ASL 2050
Studies the use of space in ASL productions and how to visualize and describe spatial relationships using ASL. Emphasizes skills necessary to describe space from different angles and point of views, focusing on areas typically difficult for English speakers. Provides extensive instruction and opportunity for students to improve both comprehension and production. Taught in ASL.

ASL 215R
ASL Conversation II
1:1:0
Prerequisite(s): Students should have equivalent knowledge of ASL 1020
Offers lower division/novice ASL users opportunities to enhance their proficiency in the target language by focusing on production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping interlocutors, seeking agreement, etc. Contrasts with all other first-year courses which must strive to produce mastery of the whole range of language acquisition components. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of production opportunities and defusing concern about new vocabulary and grammar. Increases mastery of lexical items through increased frequency of use. May be repeated for a maximum of 3 credits toward graduation.

ASL 3000
Technology for Deaf Studies
3:3:1
Prerequisite(s): ASL 2010 or equivalent
Examines various forms of media that will help Deaf Studies students succeed in both the pursuit of their academic degrees and in real-world work environments. Draws on the theoretical approaches of the Visual Culture field to explore visual theory, museums, memorials, film, video, and the emergent Deaf View Image Art (De'VIA). Gives in-depth instruction in the use of multiple digital technologies used in higher-level Deaf Studies classes and in work environments associated with Deaf people.

ASL 3010
Foundations, Theory and Methods of Deaf Studies
3:3:0
Prerequisite(s): (ASL 202G or equivalent) and University Advanced Standing
Provides Deaf Studies students a foundation for further study. Covers three areas: (1) significant persons and events in the Deaf-World which are often referenced in later courses; (2) significant theoretical approaches in the field; and (3) fundamentals of conducting research. Lays the foundation for students to engage in meaningful inquiry in upper-division coursework. Taught in ASL.

ASL 3050
Advanced American Sign Language
3:3:0
Prerequisite(s): ASL 202G or instructor approval
Designed for students who have attained a fairly good mastery of basic ASL. Focuses on grammatical and linguistic aspects of ASL, including sign formation, morphological structures, syntactic structures, pronominalization, and analysis of subjects and objects, classifiers, depicting verbs, pluralization, tense concepts, and social interaction of language and culture within Deaf communities. Lab access fee of $10 applies.

ASL 315R
ASL Conversation III
1:1:0
Prerequisite(s): (ASL 202G or equivalent knowledge) and University Advanced Standing
Offers intermediate ASL users opportunities to enhance their proficiency in the target language by focusing on production. Centers on discussions from a selected reading list in 'book club' form. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen comprehension for natural conversational flow. Contrasts with all other third-year courses which are more content based. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of conversational opportunities. May be repeated for a maximum of 3 credits toward graduation.

ASL 3310
Interpreting I
3:3:0
Fall, Spring
Prerequisite(s): Any 3000 level ASL course and University Advanced Standing
Introduces bidirectional (ASL-to-English and English-to-ASL) interpreting between Deaf and hearing people. Studies the profession and skills necessary to be an interpreter. Includes history, models, and professional certification procedures of interpreting; cognitive processes, physical and psychological factors, intercultural communication, ethics, and situational interpreting. Deaf students are encouraged to enroll. May be delivered online.
Course Descriptions

ASL 3320 Physiology of Interpreting
3:3:0 On Sufficient Demand
* Prerequisite(s): ASL 202G and University Advanced Standing
Introduces students to skills and processes required to maintain health and wellbeing in the physically demanding and high stress field of interpreting. Develops cognitive, ergonomic, and dual tasking abilities required to interpret without stress or physical injury. Helps students better understand how a healthy lifestyle and developing good habits can improve their skills and prevent injury. Lab access fee of $10 applies.

ASL 3330 Cross-Cultural Communication and Interpreting
3:3:0
* Prerequisite(s): ASL 3310, Instructor Approval, and University Advanced Standing
Builds on course ASL 3310. Focuses heavily on the practice of interpreting with special emphasis on the dimension of intercultural communication. Requires regular skill-building exercises in both consecutive and simultaneous interpretation, both English-to-ASL and ASL-to-English. Deaf students are encouraged to enroll. Taught in ASL. Lab access fee of $10 applies.

ASL 3340 Interpreting II—Advanced Techniques
3:3:0
* Prerequisite(s): ASL 3310 and University Advanced Standing
Builds on the principles (ASL-to-English and English-to-ASL) for interpreting between Deaf and hearing people taught in interpreting I. Studies the profession and skills necessary to be an interpreter in more specialized settings such as medical, legal, mental health, and theatre. Includes history, models, and professional certification procedures of interpreting: cognitive processes, physical and psychological factors, intercultural communication, ethics, and situational interpreting. Deaf students are encouraged to enroll. Lab access fee of $10 applies.

ASL 3350 Consecutive Interpreting
3:3:1 On Sufficient Demand
* Prerequisite(s): (ASL 3310 or Instructor Approval) and University Advanced Standing
Introduces students to skills and processes required to produce consecutive interpretations. Focuses on developing basic cognitive, semantic, and dual tasking abilities required to interpret rehearsed and/or spontaneous texts. Also teaches students to incorporate semantic choice, register, and ethical behavioral decisions and understand how they impact their interpretations. Develops sets of technical or field-specific signs and applying these to interpretative work. Includes one-hour per week lab. Taught in ASL. Lab access fee of $10 applies.

ASL 3360 Simultaneous Interpreting
3:3:1
* Prerequisite(s): (ASL 3350 or Instructor Approval) and University Advanced Standing
Introduces students to skills and processes required to produce simultaneous interpretations. Focuses on transitioning students from consecutive interpreting to time-limited simultaneous interpreting. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques, work with a variety of audience sizes and types. Helps students better understand how ethics impact behavioral decisions and interpretations. Gives more consideration to developing sets of technical or field-specific signs and applying these to interpretive work. Includes one-hour per week lab. Taught in ASL. Lab access fee of $10 applies.

ASL 3365 Deaf Interpreting in the Community
3:3:1
* Prerequisite(s): ASL 3310 and University Advanced Standing
Examines the roles, responsibilities and benefits of Certified Deaf Interpreters. Prepares Deaf interpreters for certification as Certified Deaf Interpreters (as recognized by the Registry of Interpreters for the Deaf). Prepares hearing interpreters to work in teams with Deaf interpreters. Examines settings, ethics, roles, theory and hands-on exercises.

ASL 3370 Sign to Voice Interpreting
3:3:1
* Prerequisite(s): (ASL 3350 or Instructor Approval) and University Advanced Standing
Introduces students to skills and processes required to produce conceptually accurate and linguistically appropriate voice interpretations of ASL texts. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques, work with a variety of audience sizes and types. Helps students better understand how ethics impact behavioral decisions and interpretations. Gives more consideration to developing sets of technical or field-specific signs and applying these to interpretive work. Includes one-hour per week lab. Lab access fee of $10 applies.

ASL 3380 Transliteration
3:3:1
* Prerequisite(s): ASL 3310 and University Advanced Standing
Introduces students to skills and processes required to produce conceptually accurate and linguistically appropriate messages using ASL signs in an English word order. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques, work with a variety of audience sizes and types. Helps students better understand how ethics impact behavioral decisions and interpretations. Gives more consideration to developing sets of technical or field-specific signs and applying these to interpretive work. Includes one-hour per week lab. Lab access fee of $10 applies.

ASL 3390 Professional Issues in Interpreting
3:3:0 On Sufficient Demand
* Prerequisite(s): ASL 3310 and University Advanced Standing
Provides students advanced study and skills development in the business and profession of interpreting, decision making while interpreting between Deaf (including Deaf-blind) and hearing populations, and negotiation of the complex and growing field of interpreting. Students develop the understanding of the day to day demands of the work needed become truly professional interpreters. Provides extensive individual feedback. Lab access fee of $10 applies.

ASL 3510 Deaf Culture to 1817
3:3:0 Fall, Spring
* Prerequisite(s): (ASL 202G or equivalent) and University Advanced Standing
Explores chronologically from 1817 to 1970 the evolution and treatment of the Deaf community and culture. Completers should acquire an understanding of the ethnic development and linguistic history of the Deaf. Presentations and class instruction conducted entirely in ASL.

ASL 3520 Deaf Culture 1817 to 1970
3:3:0 Fall, Spring
* Prerequisite(s): (ASL 202G or equivalent) and University Advanced Standing
Explores chronologically from 1817 to 1970 the evolution and treatment of the Deaf community and culture. Completers should acquire an understanding of the ethnic development and linguistic history of the Deaf. Presentations and class instruction conducted entirely in ASL.

ASL 3530 Deaf Culture from 1970
3:3:0 Fall, Spring
* Prerequisite(s): (ASL 202G or equivalent) and University Advanced Standing
Explores chronologically from 1970 to the present the evolution and treatment of the Deaf community and culture. Completers should acquire an understanding of the ethnic development and linguistic history of the Deaf. Presentations and class instruction conducted entirely in ASL. May be delivered hybrid and/or online.

ASL 3560 ASL Literature I
3:3:0 Fall, Spring
* Prerequisite(s): (ASL 3050 or Instructor Approval) and University Advanced Standing
Explores the history and development of American Sign Language literature and its traditions by studying various genres and ASL storytellers. Uses the similarities and differences in the development of traditional oral literature in other cultures to ASL literature as a tool in discussions and critiques. Covers general narratives and the unique aspects and techniques of telling stories in sign language. Teaches students to critique and learn how to produce ASL literature. Taught in ASL. May be delivered hybrid and/or online.
ASL 3710
Deaf View/Image Art--De'VIA
3:3:0
* Prerequisite(s): ASL 3050 and University Advanced Standing

Explores the role of visual arts in the Deaf-World with particular attention to DeafView Image Art (De'VIA) whose subject matter and style represent a Deaf worldview. Examines the historical contributions of early Deaf artists in various art periods. Takes as a reference other art movements stemming from oppression. Studies various artworks as well as Deaf artists' descriptions of their work, including their aims, motivations, and challenges. Taught in ASL. May be delivered hybrid.

ASL 3750
Deaf Cinema
3:3:0
* Prerequisite(s): ASL 3050 and University Advanced Standing

Examines the critical role film plays in Deaf culture and the Deaf community. Uses film as a background to critically think about and address key issues that Deaf people encounter in society. Studies various lenses of Deaf themes and Deaf characters in movies, as well as how Deaf people have been involved with creating movies throughout history and contrasts this with the ways film has been a mold for the ideology and identity of Deaf people. Introduces concepts of film composition and critiquing tools. Taught in ASL. May be delivered hybrid.

ASL 385G
Introductory Understanding of Oppression
3:3:0
* Prerequisite(s): [ASL 3050 and (ASL 3510 or ASL 3520 or ASL 3530)] or department approval and University Advanced Standing

Examines oppression in various forms through a comparative study spanning across cultures and communities. Examines the parallels between more widely-understood forms of oppression and that found with the Deaf-World. Fulfills Global/Intercultural graduation requirement.

ASL 415R
ASL Conversation IV
1:1:0
* Prerequisite(s): ASL 3050 and University Advanced Standing

Offers intermediate/advanced ASL users opportunities to enhance their proficiency in the target language by focusing on production. Centers on discussions from a selected reading list in 'book club' form. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen comprehension for natural conversational flow. Contrasts with all other upper division ASL courses which are more content based. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of conversational opportunities. May be repeated for a maximum of 3 credits toward graduation.

ASL 4330
Visual Linguistic Analysis for Interpreters
3:3:1
* Prerequisite(s): ASL 3310 and University Advanced Standing

Teaches necessary processing skills related to interpreting from Sign to spoken languages including ability to concentrate and analyze visual linguistic and non-manual markers. Analyzes discourse focusing on context, linguistics and culture. Lab required. Lab access fee of $10 applies.

ASL 4360
Legal Interpreting
3:3:0
On Sufficient Demand
* Prerequisite(s): ASL 3310 and University Advanced Standing

Provides students with a conceptual understanding of the American legal system, and the unique cultural challenges related to interpreting for parties within the system. Examines both the law and Deafness and the areas of language and cultural mediation required to effectively facilitate communication between people who are Deaf and people who are hearing in legal settings. Lab access fee of $10 applies.

ASL 4370
Ethics for Interpreters
3:3:0
* Prerequisite(s): ASL 3310 and University Advanced Standing
Spring

Provides students advanced study and skills development in ethical decision making while interpreting between Deaf (including Deaf-blind) and hearing populations, including interpreting in: Educational, Higher Ed, Legal, Mental Health and Medical situations. Helps students develop the ethical understanding needed to become truly professional interpreters. Provides extensive individual feedback to rapidly improve students' interpreting skills and understanding of the complex nature of interpreting ethics. Lab access fee of $10 applies.

ASL 4380
Applying Interpreting Skills to Coursework--Medical
3:3:0
* Prerequisite(s): ASL 3350; ASL 3360, University Advanced Standing
* Corequisite(s): ASL 3365

Guides interpreters through skill sets applied to real life classroom lectures, specifically medical and psychology courses offered on-line through accredited universities. Requires practical application of specific interpreting skills and techniques as well as course preparation and acquisition of course specific knowledge to develop balanced interpreting practices, including both specific applicable skills in interpretation and a broad based liberal arts knowledge to which the skills are applied.

ASL 4381
Applying Interpreting Skills to Coursework--Law
3:3:0
* Prerequisite(s): ASL 3350; ASL 3360, University Advanced Standing.
* Corequisite(s): ASL 4360

Guides interpreters through skill sets applied to real life classroom lectures, specifically law and justice courses offered on-line through accredited universities and sample courtroom scenarios. Requires practical application of specific interpreting skills and techniques as well as course preparation and acquisition of course specific knowledge to develop balanced interpreting practices, including both specific applicable skills in interpretation and a broad based liberal arts knowledge to which the skills are applied.

ASL 4382
Applying Interpreting Skills to Coursework--Education
3:3:0
* Prerequisite(s): ASL 3350; ASL 3360, University Advanced Standing
* Corequisite(s): ASL 3365

Guides interpreters through skill sets applied to real life classroom lectures, specifically education and other courses offered on-line through accredited universities. Requires practical application of specific interpreting skills and techniques as well as course preparation and acquisition of course specific knowledge to develop balanced interpreting practices, including both specific applicable skills in interpretation and a broad based liberal arts knowledge to which the skills are applied.

ASL 4383
Applying Interpreting Skills to Coursework--Community
3:3:0
* Prerequisite(s): ASL 3350; ASL 3360, University Advanced Standing.
* Corequisite(s): ASL 3365

Guides interpreters through skill sets applied to real life classroom lectures and instruction including business, manufacturing and organizational courses offered on-line through accredited universities. Requires practical application of specific interpreting skills and techniques as well as course preparation and acquisition of course specific knowledge to develop balanced interpreting practices, including both specific applicable skills in interpretation and a broad based liberal arts knowledge to which the skills are applied.

ASL 439R
Special Topics in Interpreting
3:3:1
On Sufficient Demand
* Prerequisite(s): ASL 3310 and University Advanced Standing

Provides students advanced study and skills development in interpreting between deaf (including deaf-blind) and hearing populations. Focuses on different topics as deemed appropriate (e.g., variety of academic, business, social contexts). Helps students in the Advanced Certification Interpreter Preparation Program (ACIPP) become bona fide professional interpreters. Provides extensive individual feedback to rapidly improve students' interpreting skills and understanding of the complex nature of the interpreting process. Repeatable up to 9 credits toward graduation. Lab access fee of $10 applies.
ASL 4410
ASL Linguistics
3:3:0 Fall, Spring
* Prerequisite(s): ASL 3050 and University Advanced Standing
Builds on concepts introduced in ASL 3050 with a focus on cognitive processes involved in language use. Focuses on grammatical structures of ASL with emphasis on its mental space and mapping functions, and how meaning is constructed in ASL. Taught entirely in ASL.

ASL 4450
Deaf-World Discourse
3:3:0 Fall
* Prerequisite(s): ASL 3050 and University Advanced Standing
Examines the discourse practices of the Deaf-World. Studies the ways that Deaf people use discursive forms to accomplish specific social aims. Focuses on the connections among linguistic forms and social functions with an emphasis on those forms that Deaf people associate with various identities. Adopts an anthropological bias toward real-world discourse as primary data, and prepares students to do ethnographic fieldwork in the Deaf-World. Taught in ASL.

ASL 4520
Deaf People and Disability Studies
3:3:1
* Prerequisite(s): ASL 3530 and University Advanced Standing
Introduces the field of Disability Studies and shows where Deaf people fit within this field. Explores the historical, social, political, religious, philosophical, and cultural influences that construct and influence the categories of disability.

ASL 4530
Deaf Peoples of the World
3:3:0
* Prerequisite(s): ASL 3530 and University Advanced Standing
Explores the lives of Deaf people in various places around the world. Considers the extent to which the deaf experience is cross-cultural and to what extent it is unique to specific locations. Explores the lifestyles, educational opportunities, political climate and level of community development of deaf people across the globe. Seeks to illuminate areas of overlap and of difference among the worldviews of various communities.

ASL 4550
Multicultural Issues In the Deaf-World
3:3:0 Fall
* Prerequisite(s): ASL 202G and University Advanced Standing
Explores a variety of issues facing various ethnic deaf groups in American society. Considers how these groups express their concerns out of ethnic, racial, class, sexual, or gender experiences that help to define issues of political, economic and social impact. Also discusses how the members of these groups constitute American. May be delivered online.

ASL 4560
Deafness and the Law
3:3:0 Spring
* Prerequisite(s): ASL 3050 and University Advanced Standing
Provides students with a perspective of the development of the concept of Deafness by exploring the history of Deafness within the context of the American legal system and internationally. Examines both the law and Deafness as social constructs and how the social definition of Deafness shapes laws, policies and judicial decisions which may help or hinder the development of the Deaf community.

ASL 4610
ASL Literature II
3:3:0
* Prerequisite(s): ASL 3610 and University Advanced Standing
Explores the dynamics of ASL literature and its traditions by studying various genres and ASL storytellers/poets. Covers stories with constraints, poetry, and songs. Taught in ASL. May be delivered hybrid and/or online.

ASL 4800
Deaf Culture Studies
3:3:0 Spring
* Prerequisite(s): (ASL 3530 or equivalent or instructor approval) and University Advanced Standing
Explores advanced concepts relative to American Deaf culture, including cultural constructions of the body, the "problem of voice," class consciousness, the technology of voice, the relationships between art and culture, the "Deaf ethic," the promise of culture, and issues of enculturation. Provides a comprehensive study of the Deaf-World through analysis of historical events, current issues, and the expressions of Deaf people themselves. Lab access fee of $10 applies.

ASL 4850
Advanced Understanding of Oppression and Audism
3:3:0
* Prerequisite(s): ASL 385G and University Advanced Standing
Examines the various ways in which hearing people oppress Deaf people. Explores different avenues through which society has built a system of privilege based on an audiocentric center. Also examines how certain members of the Deaf community internalize audist constructions of deafness.

ASL 490R
Special Topics in Deaf Studies
1 to 3:1 to 3:0 On Sufficient Demand
* Prerequisite(s): ASL 3050 and University Advanced Standing
Presents selected topics in Deaf Studies. Varies each semester. Topics will reflect the interdisciplinary nature of the Deaf Studies field. Projects and evaluation will vary according to the topic. May be repeated for a maximum of 9 credits with different topics.

ASL 495R
Independent Study in Deaf Studies
1 to 3:1 to 3:0 On Sufficient Demand
* Prerequisite(s): For Deaf Studies students only; Instructor approval, Program Coordinator/Department Chair approval, and University Advanced Standing
Provides independent study as directed in reading and individual projects specifically related to the Deaf Studies field at the discretion and approval of the Deaf and/or Department Chair. May be repeated for a maximum of 6 credits toward graduation.

Astronomy (ASTR)

ASTR 1040
Elementary Astronomy
3:3:0 Fall, Spring, Summer
Introduces astronomy and cosmology. Provides a physics-based overview of the solar system, the lives and deaths of stars, galaxies, and the evolution of the Universe. Explores the basic principles of physics and light, the tools of astronomy, and interesting concepts such as the Big Bang and black holes.

ASTR 104H
Elementary Astronomy
3:3:0 Spring
* Prerequisite(s): MATH 1050
As an honors section, this course requires a greater level of engagement and greater level of proficiency on the part of the student. Introduces astronomy and cosmology. Provides a physics-based overview of the solar system, the lives and deaths of stars, galaxies, and the evolution of the Universe. Explores the basic principles of physics and light, the tools of astronomy, and interesting concepts such as the Big Bang and black holes.

ASTR 1050
Investigations of the Solar System
3:3:0 Fall
* Prerequisite(s): MATH 1030 or any higher mathematics
Offers a descriptive and conceptual survey of the solar system. Describes the probable origin and evolution of the sun and planets, and the workings of the sun. Covers light, optics and spectroscopy, and the mechanics of orbital motion. Compares planets by their origins, structures and atmospheres. While the presentation is primarily qualitative, assumes rudimentary math skills on the part of the student to facilitate comparative studies of solar system objects.

ASTR 1060
Investigations of Stars and Galaxies
3:3:0 Spring
* Prerequisite(s): MATH 1030 or any higher mathematics
Describes the origins and evolutions of stars, and collections of stars, galaxies and clusters of galaxies. Includes introduction to cosmology. Teaches the law of gravity and those laws of physics connected with optics and spectroscopy. Emphasizes conceptual learning, and assumes rudimentary mathematical skills on the part of students to facilitate comparative studies.
ASTR 1070
Cultural Astronomy in Our Lives
3:3:0 Spring
Explores the visible sky as seen with the naked eye. Presents examples of cultural interpretations of the sun, moon, planets and stars, methods of keeping calendars, and changes that occur through the seasons. Studies the motions of the planets, including the earth, and changes in the sky from different latitudes. Investigates how astronomy has impacted the lives of people throughout the ages and around the world. Includes extensive use of the UVU planetarium, nighttime observation, illustrated lectures, and class demonstrations.

ASTR 107H
Cultural Astronomy in Our Lives
3:3:0 On Sufficient Demand
Explores the visible sky as seen with the naked eye. Presents examples of cultural interpretations of the sun, moon, planets and stars, methods of keeping calendars, and changes that occur through the seasons. Studies the motions of the planets, including the earth, and changes in the sky from different latitudes. Investigates how astronomy has impacted the lives of people throughout the ages and around the world. Includes extensive use of the UVU planetarium, nighttime observation, illustrated lectures, and class discussion.

ASTR 1080
Life in the Universe
3:3:0 Fall
Presents a general introduction to the scientific method of understanding life, its origins, and its place in the universe. Discusses the philosophy governing the scientific view of learning about life. Treats in detail what life is, the adaptability of life and how it evolves, why Earthlike conditions resulted in life as we know it, what other environmental conditions might sustain life, and where life may be found beyond Earth.

ASTR 290R
Independent Study
1 to 5:0 to 5:0 to 15 On Sufficient Demand
For students interested in advanced topics in astronomy and cosmology. Students may choose their own course of study under the guidance of an assigned faculty member.

ASTR 3050
Research Methods in Astronomy
3:1 to 2:2 to 4 * Prerequisite(s): ASTR 3050, University Advanced Standing, and Department and Instructor Approval
Presents directed topics in research methods in astronomy. Prepares students to conduct astronomy research projects. Emphasizes practical methodologies in measurement, software, error analysis, and statistical analysis. Requires a class project. May require use of specialized astronomical image processing software (e.g., IRAF and PyRAF) and other programming languages. Includes practice producing oral presentations, posters and journal articles using contemporary software and LaTeX.

Auto Mechanics (AUT)

AUT 1000
Survey of Automotive Technology
2:2:0 Fall, Spring
* Prerequisite(s): ASTR 1000
An introductory course for those interested in Automotive Technology. Presents basic automotive repair lessons on ignition and fuel systems, brakes, CV joints, and emissions for state inspections. Discusses electrical accessories, computerized engine controls, and chassis components.

AUT 100L
Survey of Automotive Lab
1:0:3 Fall, Spring
* Corequisite(s): AUT 1000
Introductory course for those interested in Automotive Technology. Offers basic automotive repair lab experiences on proper and safe equipment usage, vehicle construction, engine operation, steering and suspension components, brakes, measuring and diagnostic tools.

AUT 1110
Brake Systems
2:2:0 Fall, Spring
* Corequisite(s): AUT 1110
For automotive majors and other interested community members. Covers the principles of automotive braking including hydraulic theory, diagnosis, and service of brake systems. Studies drum, disc, and power units. Includes wheel bearing adjustments, packing, and troubleshooting. Discusses tire construction including both lateral and radial run out and wheel balancing techniques. Software fee of $10 applies Lab access fee of $15 for computers applies.

AUT 1111
Brake Systems Lab
1:0:3 Fall, Spring
* Prerequisite(s) or Corequisite(s): AUT 1110
Provides hands on brake systems instruction, including drum, disc, and power units. Includes wheel bearing adjustments, packing, and troubleshooting. Labs include tire construction, both lateral and radial run out and wheel balancing techniques. Tool room fee of $10 for equipment applies. Course Lab fee of $17 for computers applies.

AUT 1120
Manual Power Trains
2:2:0 Fall, Spring
* Prerequisite(s) or Corequisite(s): AUT 1120
For automotive majors and other interested community members. Designed to develop skills and knowledge in the area of manual transmission/transaxes and driveline components. Covers the function, construction, operation, inspection, troubleshooting and servicing of front, rear, and four-wheel drive power transmission devices used in passenger cars and light trucks. Software fee of $10 applies. Lab access fee of $15 for computers applies.

AUT 112L
Manual Power Trains Lab
1:0:3 Fall, Spring
* Prerequisite(s) or Corequisite(s): AUT 1120
Define diagnosis and repair of manual transmissions including transaxes, differentials, drive shafts, and four wheel drive components. Operation of clutches with torque and gear application. Tool room fee of $10 for equipment applies. Course Lab fee of $16 for materials applies.

AUT 1130
Engine Repair
2:2:0 Fall, Spring
* Corequisite(s): AUT 113L Recommended
Offers an in-depth study of design, operation, troubleshooting, and service procedures for modern gasoline and diesel engines. Presents procedures for dis-assembly and reassembly of engine units, service, and technical data. Software fee of $10 applies Lab access fee of $15 for computers applies.

AUT 113A
Engine Repair Lab
2:1:3 Fall, Spring
For automotive majors and other interested community members. Studies construction, operation, and performance of various types of engines. Covers the theory of combustion, and characteristics of fuels, lubrication systems, cooling systems, timing valves, and wear problems with all other parts of the engine. Includes lab experience. Tool room fee of $10 for equipment applies.

AUT 113B
Engine Repair
2:1:3 Fall, Spring
Designed for anyone interested in small-engine repair. Includes hands-on application with shop time. Offers practical information about small engines, theory, operations, and maintenance. Provides information, troubleshooting and service techniques for snowmobiles, 4-wheelers, personal watercraft, mowers, tillers, and other small engine applications.

AUT 113L
Engine Repair Lab
1:0:3 Fall, Spring
* Prerequisite(s) or Corequisite(s): AUT 1130
Provides a laboratory experience enhanced by following the Engine Repair ASE task list. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufacturers to supplement training. Tool room fee of $10 for equipment applies. Course Lab fee of $17 for materials applies.
Course Descriptions

AUT 1160
Automotive Electrical Systems
2:2:0 Fall, Spring, Summer
* Corequisite(s): AUT 116L Recommended
Studies electrical and electronic fundamentals found and used on current model automobiles and trucks. Topics of study are: electricity, Ohm's Law, magnetism, inductance, capacitance, electronic devices, schematic user's information, test procedures, test equipment, and batteries.

AUT 116L
Automotive Electrical Systems Lab
1:0:3 Fall, Spring, Summer
* Prerequisite(s) or Corequisite(s): AUT 1160
Studies electrical and electronic fundamentals found and used on current model automobiles and trucks. Topics of study are: electricity, Ohm's Law, magnetism, inductance, capacitance, electronic devices, schematic user's information, test procedures, test equipment, and batteries. Lab exercises are correlated with the Automotive Service Excellence (ASE) P1 task list. Lab work will include activities on lab circuitry and live vehicles. Tool room fee of $10 for equipment applies. Course Lab fee of $17 for materials applies.

AUT 1170
Engine Electrical Systems
2:2:0 Fall, Spring
* Prerequisite(s): AUT 1110, AUT 1120, AUT 1130, and AUT 1160
* Corequisite(s): AUT 117L Recommended
Studies the function, construction, operation, testing, diagnosis and servicing of automotive ignition systems, starting, charging/generator systems and battery testing using a variety of diagnostic test equipment.

AUT 117L
Engine Electrical Systems Lab
1:0:3 Fall, Spring, Summer
* Prerequisite(s): AUT 1110, AUT 1120, AUT 1130, and AUT 1160
* Corequisite(s): AUT 117L Recommended
Studies the function, construction, operation, testing, diagnosis and servicing of automotive ignition systems, starting, charging/generator systems and battery testing using a variety of diagnostic test equipment. Proper use of diagnostic test equipment in the lab and on vehicle systems will stressed. Tool room fee of $10 for equipment applies. Course Lab fee of $17 for materials applies.

AUT 1210
Suspension and Steering Systems
2:2:0 Fall, Spring
* Corequisite(s): AUT 121L Recommended
Discusses nomenclature, theory of operation, and service procedures for passenger car and light-truck suspensions and computer controlled power steering systems. Includes instruction in two-wheel and four-wheel electronic systems. Presents methods of alignment including computerized alignment and service tools. Software fee of $10 applies. Lab access fee of $15 for computers applies.

AUT 121L
Suspension and Steering Systems Lab
1:0:3 Fall, Spring
* Prerequisite(s) or Corequisite(s): AUT 1210
Provides a laboratory experience enhanced by following the Suspension and Steering ASE task list. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufactures to supplement training. Tool room fee of $10 for equipment applies. Course Lab fee of $17 for materials applies.

AUT 1220
Automatic Transmissions and Transaxles
2:2:0 Fall, Spring
* Prerequisite(s): AUT 1110, AUT 1120, AUT 1130, and AUT 1160
* Corequisite(s): AUT 122L Recommended

AUT 122L
Automatic Transmissions and Transaxles Lab
1:0:3 Fall, Spring
* Prerequisite(s) or Corequisite(s): AUT 1220
Provides a laboratory experience enhanced by following the Automatic Transmissions and Transaxles ASE task list. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufactures to supplement training. Tool room fee of $10 for equipment applies. Course Lab fee of $19 for materials applies.

AUT 1230
Engine Performance--2nd Half
2:1:3 Spring
* Prerequisite(s): AUT 1210, AUT 1230 with a grade of C- or higher
Includes advanced instruction in engine performance, starting systems, charging systems, and indicator circuits. Discusses all mechanical and electronic parts of the vehicle relative to quality engine tune-up and diagnostic instruction. Includes lab experience.

AUT 123L
Engine Performance Lab
1:0:3 Fall, Spring
* Prerequisite(s) or Corequisite(s): AUT 1230
Provides a laboratory experience enhanced by following the Engine Performance ASE task list. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufactures to supplement training. Tool room fee of $10 for equipment applies. Course Lab fee of $17 for materials applies.

AUT 1240
Tech Math for Mechanics
3:3:0 Fall, Spring
For students in Automotive, Collision Repair, and Diesel Mechanics technology majors. Covers principles of math as required by the industry. Studies pressures, measuring engine and horsepower output, hydraulics, torque, and electrical flow. Includes solving equations in percent, proportion, variation, formula rearrangement, function and graphs with right and oblique triangles. Successful completers should be able to solve problems on the job using technical and mathematical data.

AUT 201L
Automotive Service Practicum Engine Performance and Steering Suspension
2:0:6 Fall, Spring
* Prerequisite(s): AUT 1210, AUT 1230 with a grade of C- or higher
Includes field type service work in an instructional setting. Emphasizes vehicle service needs which are most frequently required in modern commercial service centers. Requires the diagnosis and repair of computerized vehicle systems. Includes standards for quality and quantity of work produced. Studies parts procurement, estimates, repair orders, and customer relations. Following ASE P2 Performance Tasks for Steering/Suspension and Engine Performance. Tool room fee of $10 for equipment applies. Course Lab fee of $17 for materials applies.

AUT 202L
Automotive Service Practicum Emission Controls and Chassis Electronics
2:0:6 Fall, Spring
* Prerequisite(s): AUT 1160, AUT 1230 with a grade of C- or higher
Includes field type service work in an instructional setting. Emphasizes vehicle service needs which are most frequently required in modern commercial service centers. Requires the diagnosis and repair of computerized vehicle systems. Includes standards for quality and quantity of work produced. Studies parts procurement, estimates, repair orders, and customer relations. Following ASE P2 Performance Tasks for Emission Control Systems and Chassis Electrical. Tool room fee of $10 for equipment applies. Course Lab fee of $17 for materials applies.

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AUT 203L
Automotive Service Practicum Brake Systems and Transmission Controls
2:0:6 2 Spring
* Prerequisite(s): AUT 1110, AUT 1160, AUT 1220 with a grade of C- or higher
Includes field type service work in an instructional setting. Emphasizes vehicle service needs which are most frequently required in modern commercial service centers. Requires the diagnosis and repair of computerized vehicle systems. Includes standards for quality and quantity of work produced. Studies parts procurement, estimates, repair orders, and customer relations. Follows ASE P2 Performance Tasks for Automatic Transmissions and Brake Systems including Anti-Lock and Traction Control. Tool room fee of $10 for equipment applies. Course Lab fee of $17 for materials applies.

AUT 204L
Automotive Service Practicum Fuel Management Systems and HVACR
2:0:6 Spring
* Prerequisite(s): AUT 1160, AUT 1230 with a grade of C- or higher
Includes field type service work in an instructional setting. Emphasizes vehicle service needs which are most frequently required in modern commercial service centers. Requires the diagnosis and repair of computerized vehicle systems. Includes standards for quality and quantity of work produced. Studies parts procurement, estimates, repair orders, and customer relations. Follows ASE P2 Performance Tasks for Engine Performance and Heating, Ventilation and Air Conditioning Systems. Tool room fee of $10 for equipment applies. Course Lab fee of $17 for materials applies.

AUT 2110
Advanced Steering Suspension and Alignment
2:2:0 Fall
* Prerequisite(s): AUT 1210, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 201L Recommended
Discusses advanced theory of two-wheel and four-wheel alignment. Studies nomenclature, theory of operation and service procedures for mechanical, electronic, and electrical parts of automotive steering and suspension systems. Software fee of $10 applies. Lab access fee of $15 for computers applies.

AUT 2120
Advanced Engine Performance
2:2:0 Fall
* Prerequisite(s): AUT 1130, AUT 1230, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 202L Recommended
Includes advanced instruction in engine performance, indicator circuits and On-Board Diagnostics II (OBD-II). Discusses mechanical and electronic parts of the vehicle relative to quality engine tune-up and diagnostic instruction. Software fee of $10 applies. Lab access fee of $15 for computers applies.

AUT 2130
Advanced Emission Control Systems
2:2:0 Fall
* Prerequisite(s): AUT 1130, AUT 1230, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 202L Recommended
Studies emissions control systems on vehicles. Reviews county emissions certification requirements. Emphasizes the pre and post testing of the different emission systems and the control of the systems as they apply to different types of fuel systems. Software fee of $10 applies. Lab access fee of $15 for computers applies.

AUT 2140
Chassis Electrical and Electronics Systems
2:2:0 Fall
* Prerequisite(s): AUT 1160, AUT 1170 with a grade of C- or better
* Corequisite(s): AUT 202L Recommended
Studies theory, diagnosis, and repair of chassis electrical and electronic systems. Includes the study of lighting systems, electronic dash circuits, inflatable restraint systems, electronic cruise control systems and other accessories found on vehicles.

AUT 2210
Advanced Braking and Control Systems
2:2:0 Spring
* Prerequisite(s): AUT 1110, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 203L Recommended
An in-depth study of the theory, diagnosis, and repair of electronic controlled braking systems. Includes the study of anti-lock brakes, traction control systems, stability control systems and other control systems found on vehicles. Software fee of $10 applies. Lab access fee of $15 for computers applies.

AUT 2220
Automatic Transmissions and Electronic Controls
2:2:0 Spring
* Prerequisite(s): AUT 1220, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 203L Recommended

AUT 2240 (Cross-listed with: DMT 2230)
Heating Ventilation Air Conditioning and Refrigeration Theory
2:2:0 Spring
* Prerequisite(s): AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 204L Recommended
Offers an in-depth study of automotive heating, ventilation, air conditioning (A/C), and refrigeration systems. Includes theory of operation, diagnosis and repair of HVACR systems. Environmental safety issues are stressed including laws and regulations, CFC recovery and recycling, ozone depletion, and new, environmentally friendly, systems. Computerized automatic temperature controlled systems are also covered. Stresses service, diagnosis and troubleshooting using electronic test equipment. Software fee of $10 applies. Lab access fee of $15 for computers applies.

AUT 224L
Automotive HVAC Lab
1:0:3 Spring
* Corequisite(s): AUT 2240
This course provides a laboratory experience for Heating, Ventilation, and Air Conditioning lecture (AUT 2240). Studies and provides experience with R12 and 134a refrigerants, environmental issues, retrofit assemblies, evacuation and charging AC systems, and problem solving of AC systems. Course Lab fee of $17 for materials applies.

AUT 2250
Electronic Fuel Management Systems
2:2:0 Spring
* Prerequisite(s): AUT 1230, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 204L Recommended
Studies automotive fuel controls with particular emphasis placed on micro-processor control systems. Studies electronic and mechanical sensors of fuel and ignition systems. Also covers alternative fuel systems. Stresses service, diagnosis and troubleshooting using electronic test equipment.

AUT 2350
Electronic Diesel Fuel Management Systems
2:2:0 On Sufficient Demand
* Prerequisite(s): AUT 1230, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 204L Recommended
Studies automotive fuel controls with particular emphasis placed on micro-processor control systems. Studies electronic and mechanical sensors of fuel and ignition systems. Also covers alternative fuel systems. Covers alternative diesel fuel systems i.e. bio-diesel. Stresses service, diagnosis and troubleshooting using electronic test equipment.
Course Descriptions

AUT 281R
Cooperative Work Experience
1 to 8:0 to 40 Fall, Spring, Summer
* Corequisite(s): AUT 285R
Designed for Automotive Technology majors. Provides paid, on-the-job work experience in the student’s major. Work experience, the correlated class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated as desired for interest. May be graded credit/no credit.

AUT 285R
Cooperative Correlated Class
1:1:0 Fall, Spring, Summer
* Corequisite(s): AUT 281R
Designed for Automotive Technology majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Coop coordinator. Included lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study. May be repeated as desired for interest.

AUT 299R
SkillsUSA
1:1:0 Fall, Spring
Designed for Automotive Technology majors. Supports and facilitates the goals and objectives of SkillsUSA. SkillsUSA is a pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests. May be repeated as desired for interest.

AUT 3230
High Performance Engines
3:2:3 Spring
* Prerequisite(s): AUT 1130, AUT 1230, and University Advanced Standing
Offers a more in-depth study of the design factors that are unique to high output engines and how to modify engines to obtain the desired outcome. Studies the characteristics of various fuels used in high performance engines and their effects. Discusses the implications of service learning and ethics in high performance engine applications. Tood room fee of $10 for equipment applies. Course Lab fee of $17 for materials applies.

AUT 3350
Alternative Fuel Systems
3:3:0 Fall
* Prerequisite(s): University Advanced Standing, Junior Standing, and AUT 2250 or AUT 2260 recommended
* Corequisite(s): AUT 2240 recommended
This course is open to all interested students and community members with departmental approval. Studies current and upcoming alternatives to gasoline as a fuel for the transportation industry that are being promoted, used, and developed by sources within and without the mainstream production system. Includes new alternatives such as CNG/Propane, hydrogen, electric, hybrid (both plug-in and non-plug-in), bio-fuels (both diesel and alcohol), diesel, and fuel cells. Discusses the implications of service learning and ethics in alternative fuel powered vehicles.

Aviation Science (AVSC)

AVSC 1010
Survey of Aviation Science
2:2:0 Fall, Spring, Summer
Designed for all students interested in aviation careers. Includes a general knowledge of aviation, historical events, and aerospace studies/ development opportunities. Studies aviation and aerospace terminology, how aircraft and spacecraft fly, research and development of future systems, government and industry roles in the growth of aviation, and potential careers in aviation. May be delivered online.

AVSC 1020
Aircraft Identification
2:2:0 On Sufficient Demand
Introduces skills of aircraft recognition and identification. Teaches identification of aircraft types and purposes available in the aviation world. Develops increased safety skills and the ability to correlate identifications to speed.

AVSC 1030
Aviation Customer Service
3:3:0 Not Offered
Covers the history of customer service in the aviation industry. Introduces flight school and general aviation customer service principles. Studies customer rights and carrier responsibilities. Explores diffusion of confrontational customers. Analyzes airline cultures and resulting effects on employees and customers.

AVSC 1040
In-flight Service
3:3:0 Not Offered
Teaches service and safety issues of in-flight service operations. Examines responsibilities and training requirements of in-flight service specialists. Covers applicable federal aviation regulations. Explores labor relations and crew resource management. Discusses abnormal and emergency procedures. Studies passenger safety and security issues as well as service and customer relations.

AVSC 1050
Introduction to Aviation Administration
3:3:0 Fall, Spring, Summer
Designed to discuss aviation industry structure, practices, and administrative career opportunities; emphasizes strategic decision making in aviation transportation, manufacturing, airport, and government administration, and provides an overview of various administrative methods, tools, and responsibilities. Provides a general knowledge of aviation administration career options and the role of administrators within the aviation industry. May be delivered online. Canvas Course Mats $68/McGraw applies.

AVSC 1100
Ground Private Pilot
4:4:0 Fall, Spring, Summer
Introduces the airplane to entry-level student pilots as they prepare for flight training. Stresses airport systems, air traffic control procedures, aviation weather, air navigation, radio communication procedures, and Federal Aviation Regulations. Prepares students for the required FAA Private Pilot Airplane Knowledge Test. May be delivered online.

AVSC 1110
Flight Private Pilot Certification
3:2:3 Fall, Spring, Summer
* Prerequisite(s) or Corequisite(s): AVSC 1100
Covers airplane ground and flight operations, take-off and landing, basic flight maneuvers, cross country methods and emergency procedures. Prepares students for the required FAA Private Pilot Airplane Practical Test. May be delivered online. Course fee of $9,778 for flight applies for Fall 2015. Course fee of $11,074 for flight applies for Spring 2016.

AVSC 1120
Basic Aircraft Systems
1:1:0 Not Offered
* Prerequisite(s): AVSC 1100
Designed to provide a more in-depth knowledge of the basic systems used in piston-powered aircraft. Includes an examination of propeller systems, constant speed propellers, retractable landing gear, electrical systems, cooling, flight control systems, and basic hydraulics. Will help students with oral examinations for the commercial and other flight certificates. $35 course fee for computers applies.

AVSC 1130
Glider Rating
1:1:1 Not Offered
* Prerequisite(s): AVSC 1100
Prepares student to transition from powered to unpowered glider flight in preparation for the FAA Private Pilot Glider Rating. Includes ground and flight lessons covering glider towing, launching, powered gliders, thermals, weather, landing, mountain waves, regulations, and emergency procedures. Teaches aerodynamic theory associated with more efficient flight and aircraft control.
AVSC 1150
Mountain and Desert Flying
1:1:0 Not Offered
* Prerequisite(s): AVSC 1100 and AVSC 1110
Introduces common flying conditions in mountain and desert areas. Emphasizes flight accident statistics and causes, effects of altitude on aircraft and pilot, mountain associated wake turbulence, techniques for low-altitude search and rescue or photography over mountainous areas, maneuvers, and abnormal or emergency procedures. Includes survival techniques for emergency landings in mountainous or desert terrain. $35 course fee for computers applies.

AVSC 1160
Seaplane Rating
1:1:1 Not Offered
* Prerequisite(s): AVSC 1100, AVSC 1110
Provides training to aid in the transition from single-engine land to single-engine sea. Stresses the differences between operating on land and over bodies of water. Introduces regulations for seaplane pilots. Provides training in seaplane aircraft with the capability to land and takeoff from water. Prepares the student for the FAA seaplane rating flight test.

AVSC 1220
Ground Commercial Pilot--Phase I
1:1:0 Not Offered
* Prerequisite(s): AVSC 1100 and AVSC 1110
Covers cross-country airplane flight operations. Stresses advanced VFR navigation using dead reckoning, piloting and radios, flight planning, aircraft performance, weight and balance, aircraft systems, night operations, and emergency procedures for cross-country flight. Includes Federal Aviation Regulations for Commercial Airplane Pilots, advanced aircraft navigational systems, and decision making.

AVSC 1230
Flight Cross Country
2:1:3 Fall, Spring, Summer
* Prerequisite(s): AVSC 1100, AVSC 1110
Prepares students to meet FAA Instrument Airplane and Commercial Airplane Pilot cross-country requirements. Introduces extended cross-country flights in both day and night environments with consideration for passenger safety. Includes operational flight performance using all available navigational weather and airplane performance data. Requires proof of completion of cross country airplane pilot in command time. May be delivered online. Course fee of $9,545 for flight applies for Fall 2015. Course fee of $10,409 for flight applies for Spring 2016.

AVSC 1240
Ground Instrument Pilot
4:4:0 Fall, Spring, Summer
* Prerequisite(s): AVSC 1100, AVSC 1110
Covers FAA regulations, meteorology, navigation, radio procedures, instrument departures, en route and approach procedures, the instrument airway, and airspace systems as well as aircraft systems operation. Introduces glass cockpit instrumentation. Covers basic flight instrument construction and operation. Prepares pilots for the required FAA Instrument Pilot Airplane Knowledge Test. May be delivered online.

AVSC 1250
Flight Instrument Pilot
3:2:2 Fall, Spring, Summer
* Prerequisite(s): AVSC 1100, AVSC 1110
Stresses attitude instrument flying techniques, instrument departure and approach procedures, and instrument en route and cross-country navigation techniques while in actual or simulated weather conditions with reference solely to the flight instruments. Prepares students for the required FAA Instrument Airplane Practical Test. May be delivered online. Course fee of $10,255 for flight applies for Fall 2015. Course fee of $10,759 for flight applies for Spring 2016.

AVSC 1260
21st Century Avionics and Instrumentation
1:1:0 Fall, Spring, Summer
* Prerequisite(s): AVSC 1100
Provides pilots with the knowledge and practical experience using new generation glass cockpit electronic instrumentation and radio navigation devices. Includes glass cockpit system knowledge, functions, safety, flight planning, crew concepts, and the use of GPS technology. Requires flight, flight training device, or computer based instruction and experience to meet FAA standards for transition to this technology. May be delivered online.

AVSC 1310
AMT Procedures and Practices A
5:5:0 Not Offered
For Aviation Maintenance Technician Apprentice students. Introduces students to the aviation maintenance environment. Studies common procedures and practices in the industry, the use of tools and measurement devices, and Federal Aviation Regulation related to technician certification and inspections. Includes maintenance forms and record keeping, and weight and balance publications.

AVSC 1320
AMT General Knowledge A
5:5:0 Not Offered
For Aviation Maintenance Technician Apprentice students. Introduces general processes used by the Aviation maintenance Technician. Introduces aircraft electrical principles including the devices and procedures used in analyzing aircraft electrical systems. Covers materials and processes used in aircraft maintenance. Develops basic science application skills for aircraft maintenance.

AVSC 1330
AMT Airframe Phase I B
5:5:0 Not Offered
* Prerequisite(s): AVSC 1310, AVSC 1320, Must complete all (a) level AMT apprentice courses with grade of C- or better
For Aviation Maintenance Technician Apprentice students. Introduces students to the basic maintenance and procedures involving the airframes of a variety of aircraft. Discusses composite technology, aircraft finishes, sheet metal, basic structures, welding, and other fasteners.

AVSC 1340
AMT Powerplant Phase I B
5:5:0 Not Offered
* Prerequisite(s): AVSC 1310, AVSC 1320, Must complete all (a) level AMT apprentice courses with grade of C- or better
For Aviation Maintenance Technician Apprentice Students. Introduces students to the basics of power plant installation, repair, and servicing. Focuses on the reciprocating engine used on certified aircraft. Covers radial engines, basic two- and four-stroke reciprocating engines, engine overhaul, starter and ignition systems, and troubleshooting procedures.

AVSC 2050
Introduction to Aviation Security
3:3:0 Not Offered

AVSC 2070
Communications for Aviation Professionals
3:3:0 On Sufficient Demand
* Prerequisite(s): ENGL 1010 and AVSC 1050
Teaches the skills necessary to effectively communicate with a variety of aviation stakeholders and professionals. Examines principles of written and verbal communication. Covers the planning, organizing and delivery of positive and negative messages. Teaches effective interpersonal and listening skills as well as techniques for adapting the message to the audience. Includes the effective development and delivery of computer-aided presentations. Explores the hazards and impacts of miscommunication on aviation safety. May be delivered online.

AVSC 2090
Air Transport Economics
3:3:0 On Sufficient Demand
* Prerequisite(s): AVSC 1050 and (MAT 1000 or MAT 1010)
Teaches basic economic concepts as applicable to air transportation. Introduces foundational principles of free enterprise, supply and demand, private and social implications of profit maximization, market structure, resource markets, inflation, economic and industry cycles, inflation and economic growth. Introduces competitive advantage, air transport demand, modeling, pricing, revenue management and supply and route architecture. May be delivered online.
AVSC 2110 
**Aviation Weather Applications**

| 3:3:0 | Fall, Spring | *Prerequisite(s): AVSC 1010, AVSC 1050, and AVSC 1100 |

Enables the aviation administrator to understand and appreciate the operational and strategic impacts of weather on the aviation industry. Teaches atmospheric composition and structure, climate and synoptic weather, aviation weather reports, forecasts and weather data sources. Requires students to apply these principles in a decision making capacity through weather tracking, planning and decision making activities. May be delivered online.

AVSC 2120 
**Personal Finance for Aviation Professionals**

| 3:3:0 | Fall, Spring | *Prerequisite(s): AVSC 1050, AVSC 1100 |

Covers financial decision making with a view of financial choices/alternatives and the impact or consequences of these choices during a student's collegiate and professional career. Includes real life scenarios designed around common challenges and issues. Requires students to create a proposed budget and reconcile expenditures monthly as the course progresses. Explores net worth statements, budgets, taxes, insurance alternatives, and life decisions applicable to finance. May be delivered online.

AVSC 2130 
**Aviation Safety**

| 3:3:0 | Fall | *Prerequisite(s): AVSC 1010, AVSC 1050, and AVSC 1100 |

Presents an introduction to aviation safety. Covers agencies overseeing safety at the commercial and general aviation levels as well as the applicable regulations they develop and enforce. Explores general aviation and commercial aviation accident statistics and accident causation models. Discusses airline, airport, aircraft, and air traffic control safety issues. Explores the role of the aviation administrator as a safety advocate and responsible party in a variety of settings. May be delivered online.

AVSC 2150 
**Air Transportation Management**

| 3:3:0 | Fall, Spring | *Prerequisite(s): AVSC 1050, AVSC 1100 |

Presents the management skills necessary to be a fixed based operator and entry-level manager for scheduled airlines in the national aviation system. Teaches management functions, marketing, financing, organization and administration, flight operations, maintenance, safety, and liability. Provides hands-on experience of management styles through evaluations and critiques of local airlines and airport facilities. Includes a student's simulated model of an FBO and related management operations as a final project. Successful completers should have a basic knowledge of air transportation management. May be delivered online.

AVSC 2160 
**Aviation Law**

| 3:3:0 | Fall, Spring | *Prerequisite(s): AVSC 1050, AVSC 1100 |

Introduces aviation law and regulations. Studies rights and responsibilities of a pilot in command of an aircraft while operating in a commercial revenue generated environment. Discusses the history of commercial aviation, Air Commerce Act, and government regulatory agencies. Successful completers should have a basic knowledge of federal, state, and international law in order to comply with Federal Aviation Regulations. May be delivered online.

AVSC 2170 
**Airline Interview Preparation**

| 1:1:0 | Not Offered | *Prerequisite(s): ENGL 1010 and AVSC 2150 |

Prepares students for the rigors of an airline interview by reviewing important areas: Including but not limited to the Code of Federal Aviation Regulations, aviation meteorology, aircraft systems, crew resource management, and interpersonal skills necessary to successfully obtain an airline or corporate flight crew position. Includes specific resume, background search, and interview preparation procedures.

AVSC 2180 
**Airline Computer Applications**

| 3:3:0 | Not Offered | *Prerequisite(s): Basic Computer Proficiency |

Introduces airline computer applications. Explores information management in areas of reservations, planning and scheduling, maintenance, crew management, dining and cabin services and human resources. Covers revenue, customer loyalty and cargo management. Discusses training programs, solution implementation and maintenance costs, as well as consulting services available to airlines.

AVSC 2190 
**Introduction to Dispatch and Scheduling**

| 3:3:0 | Not Offered | *Prerequisite(s): AVSC 1010 |

Introduces airline and corporate flight department operations and flight dispatch procedures. Teaches effects of weather, air traffic control and maintenance on flight logistics. Introduces responsibilities of dispatchers, routers, maintenance controllers, and general system operations. Covers pertinent crew and operational federal aviation regulations. Examines tools and practices of airline system control and corporate flight departments. Explores responsibilities and authority of dispatchers and schedulers.

AVSC 2200 
**Aviation Marketing**

| 3:3:0 | Not Offered | *Prerequisite(s): AVSC 1230, AVSC 1240, AVSC 1250 |

Covers privileges, responsibilities and the operational environment of a commercial pilot. Explores application of aeronautical knowledge and skills in simulated commercial operation situations. Develops judgment and decision-making skills. Studies aerodynamics, performance and limitations, weight and balance, aircraft systems, airworthiness, aeromedical factors, night and high altitude operations, weather hazards and reports, airport operations, flight planning, and decision making. Prepares students for the required FAA Commercial Pilot Knowledge Test. May be delivered online.
### AVSC 2310 Flight Commercial Pilot  
**Fall, Spring, Summer**  
* Prerequisite(s): AVSC 1230, AVSC 1240, AVSC 1250  
* Corequisite(s): AVSC 2300  

Includes maneuvers such as steep power turns, steep spirals, slow flight, lazy eights, pylon eights, and chandelles. Includes commercial cross-country, instrument flying skills, and emergency procedures. Prepares students for the required FAA Commercial Pilot Airplane Practical Test. May be delivered online. Course fee of $12,680 for flight applies for Fall 2015. Course fee of $13,484 for flight applies for Spring 2016.

### AVSC 235R Unusual Attitude Safety Training  
**1:1:1 On Sufficient Demand**  
* Prerequisite(s): AVSC 1250  

Teaches pilots how to assess various flight situations and take the appropriate action to avoid or recover from any in-flight unusual attitude scenario, includes training not covered by commercial flight courses such as situations involving wake turbulence, wind shear, mountain waves and other wind flow patterns, as well as instrument or control system failure and pilot error may produce unusual attitudes beyond those experience in normal flight. Presented in three phases: for the experience level of the 1) Private Pilot Student, 2) Instrument Pilot Student, 3) Commercial Pilot Student and for the Certified Flight Instructor Student. Course enhances overall pilot skill and increases confidence in all flight conditions. May be repeated for a maximum of 2 credits toward graduation.

### AVSC 2400 Ground Certified Flight Instructor  
**4:4:0**  
* Prerequisite(s): AVSC 2300, AVSC 2310  
* Corequisite(s): AVSC 2410  

Provides the foundational knowledge and teaching skills necessary to become an authorized FAA airplane flight instructor. Teaches certification and training requirements for which the student will have instructional privileges. Develops organization and presentation skills required for instructional activity including the application of human behavior and learning principles during instructional activity. Emphasizes training of aviation students to specific standards of competence regardless of the specific instructional privileges carried by the flight instructor. Focuses on the teaching of critical emphasis areas as identified by the FAA. Prepares students for the required FAA Flight Instructor Airplane Knowledge Test and Fundamentals of Instruction Knowledge Test. May be delivered online.

### AVSC 2410 Flight Certified Flight Instructor  
**1:1:1**  
* Prerequisite(s): AVSC 2300, AVSC 2310  
* Corequisite(s): AVSC 2400  

Designed for advanced pilots preparing for the Flight Instructor rating. Trains students to discuss and teach while precisely performing maneuvers and maintaining proper operational control. Emphasizes the identification of common student errors and proper correction. Prepares students for the required FAA Flight Instructor Airplane Practical Test. May be delivered online.

### AVSC 2420 Ground CFI Instrument  
**1:1:0**  
* Prerequisite(s): AVSC 2300, AVSC 2310  
* Corequisite(s): AVSC 2430  

Stresses in-depth study of gyroscopic and pressure instruments, attitude instrument flying techniques, IFR departure, en route, arrival and approach procedures, and the teaching of this to other pilots. Discusses Federal Aviation Regulations that apply to instrument flight instruction, flight logbook endorsements and entries, and other directives and publications that apply to airplane instrument flight. Studies the correct procedures for teaching and the analyzing of student errors while performing the required instrument flight maneuvers. Prepares students for the required FAA Flight Instructor Instrument Airplane Knowledge Test. May be delivered online.

### AVSC 2430 Flight CFI Instrument  
**1:1:1**  
* Prerequisite(s): AVSC 2300, AVSC 2310  
* Corequisite(s): AVSC 2420  

Designed for instructor pilots seeking the CFI Airplane Instrument rating. Covers all required instrument flying maneuvers from the right seat of the instrument training airplane such as instrument departures, en route navigation, and instrument approach to landings. Prepares students for the required FAA Flight Instructor Instrument Airplane Practical Test. May be delivered online.

### AVSC 2440 Ground Multi-Engine  
**1:1:0**  
* Prerequisite(s): AVSC 1100, AVSC 1110  
* Corequisite(s): AVSC 2450  

Designed for pilots preparing for multi-engine airplane operations. Covers the theory of multi-engine airplane flight and the significant aerodynamic differences between single-engine and multi-engine airplane flight. Includes system operation of constant speed propellers, multi-tank and pump fuel systems, dual electrical systems, turbocharger and ice control systems. Discusses multi-engine weight and balance and use of performance charts. Prepares students for the oral exam portion of the FAA Multi-Engine Airplane Practical Test and Airplane Pilot Knowledge Test. May be delivered online. $35 course fee for computers applies.

### AVSC 2450 Flight Multi-Engine  
**1:1:1**  
* Prerequisite(s): AVSC 1100, AVSC 1110  
* Corequisite(s): AVSC 2440  

Prepares students for flight in complex multi-engine airplanes. Stresses normal and emergency flight procedures and skills demonstrated and practiced for all phases of flight. Includes single-engine operation of a multi-engine airplane in varying flight environments and situations. Discusses complex systems operation as well as instrument flight procedures. Prepares the student for the required FAA Multi-engine Airplane Practical Test. May be delivered online. Course fee of $11,462 for flight applies for Fall 2015. Course fee of $12,252 for flight applies for Spring 2016.

### AVSC 2500 Ground Multi-Engine Instructor  
**1:1:0 On Sufficient Demand**  
* Prerequisite(s): AVSC 2300, AVSC 2310  
* Corequisite(s): AVSC 2510  

Provides the foundational knowledge and teaching skills necessary to certify as a flight instructor with a multi-engine airplane rating. Includes a review of the multi-engine airplane pilot certification requirements. Stresses the unique instructional and safety responsibilities with students in multi-engine airplanes. Prepares students for the oral exam portion of the FAA Multi-Engine Airplane Instructor Practical Test. May be delivered online.

### AVSC 2510 Flight Multi-Engine Instructor  
**1:1:0**  
* Prerequisite(s): AVSC 2300, AVSC 2310  
* Corequisite(s): AVSC 2500  

Prepares students for various maneuvers and operations necessary to instruct pilots for the FAA Multi-engine Airplane Practical Test. Teaches normal and emergency flight operations and procedures in all the various flight environments and regimes. Teaches the knowledge and skill necessary to operate a multi-engine airplane safely, while instructing multi-engine airplane pilots. Prepares students for the required FAA Multi-engine Airplane Instructor Practical Test. May be delivered online.

### AVSC 2710 Aviation Marketing and Customer Service  
**3:3:0**  
* Prerequisite(s): AVSC 2150, AVSC 2160  

Teaches principles of aviation marketing, market research and promotional concepts. Covers planning and coordination, advertising, and media as well as sales presentations. Explores aviation trade shows trade events, and networking as industry marketing tools. Covers the history of customer service in the aviation industry. Introduces customer service principles applicable to both general and commercial aviation. Analyzes customer rights and carrier responsibilities and explores diffusion of confrontational customers. Analyzes airline and corporate cultures and resulting effects on employees and customers. May be delivered online.

### AVSC 2750 Unmanned Aircraft Systems  
**3:3:0**  
* Prerequisite(s): AVSC 2150, AVSC 2160  

Introduces unmanned aircraft systems and applications. Examines the history and development of unmanned aircraft, their systems, technology, training methods, and implementation. Examines the current and future roles these aircraft will take in society and the implications surrounding their increased usage. Explores security, privacy and safety as they relate to the utilization of unmanned aircraft systems in military, law enforcement and civilian applications. Examines challenges and opportunities related to civilian utilization. May be delivered online.

### AVSC 276R Current Topics in Aviation  
1 to 3:1:0 Not Offered  
* Prerequisite(s): AVSC 1050 and AVSC 1100  

Selected topics in Aviation Science that will vary from semester to semester. May be repeated with different topic areas for a maximum of six credit hours toward graduation.
AVSC 281R Cooperative Work Experience 1 to 8:0:5 to 40 Not Offered
* Corequisite(s): AVSC 285R

Designed for Aviation majors. A current job in an aviation related field required prior to registering for this course. Course content is individualized, with students setting objectives in consultation with their faculty coordinator and their on-the-job supervisor. Credit is determined by the number of hours a student works during the semester. (One credit for each five hours of work per week.) May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

AVSC 285R Cooperative Related Class 1:1:0 Not Offered
* Corequisite(s): AVSC 281R

Designed to enable students with career aspirations in aviation related fields to begin career planning. Enhances a student’s knowledge, personal development, professional development and professional preparation by integrating academic study with practical experience and resume preparation. May be repeated for a maximum of 2 credits toward graduation.

AVSC 2860 SkillsUSA 1:1:0 Not Offered

SkillsUSA includes leadership training, parliamentary procedure, job interview skills, prepared speaking, extemporaneous speaking, and organizational skills. Upon completion, the student should understand the SkillsUSA organization and how it helps to build leadership skills.

AVSC 3010 Flight Environment 3:3:0 Fall
* Prerequisite(s): AVSC 1240 and University Advanced Standing

Teaches interpretation, selection, and compilation of appropriate weather data. Examines METAR, TAF, PIKREPS, AIRMETs, SIGMETs and other sources of applicable weather information. Uses sample reports, data, and charts. Includes class and group discussion, lecture, practical example, and case studies. May be delivered online.

AVSC 3020 Aviation Insurance and Risk Management 3:3:0 On Sufficient Demand
* Prerequisite(s): AVSC 2130 and University Advanced Standing

Explores the complexity of aviation risk management from flight operations and aircraft maintenance perspectives. Examines industry insurance practices and standards, including the development of risk management procedures to meet both government and insurance requirements. Analyzes basic underwriting procedures and requirements. Presents basic principles of hazardous materials handling in aviation. May be delivered online.

AVSC 3030 Air Traffic Management 3:3:0 Fall
* Prerequisite(s): AVSC 2150, AVSC 2160, and University Advanced Standing

Teaches tower, approach, and center techniques and terminology. Covers radar and non-radar control environments and the pilot's responsibility in each. Explains effective use of the Air Traffic Control System. Includes lecture, discussion, small group practice, and evaluation. May be delivered online.

AVSC 3040 Air Traffic Control II 3:3:0 Spring
* Prerequisite(s): AVSC 3030 and University Advanced Standing

Covers advanced air traffic management concepts, weather problems, communications procedures, and technical control skills. Provides simulated air traffic control situations and crisis management skills. Discusses terminal en route procedures and Federal Aviation Regulations. May be delivered online.

AVSC 3060 Airline Management 3:3:0
* Prerequisite(s): AVSC 2150, AVSC 2160, and University Advanced Standing

Prepares student for management level duties at air carriers. Examines airline operational considerations, regulation, financing, accounting methods, marketing, customer service, profitability, and labor relations. Discusses how some airlines succeed and others fail. Covers code-sharing and airline alliances. May be delivered online.

AVSC 3070 Aviation Cargo Operations 3:3:0 On Sufficient Demand
* Prerequisite(s): AVSC 2150 and University Advanced Standing

Studies air cargo history and industry development. Teaches air cargo scheduling and supply chain administration. Explores aircraft options and conversions across and airport and logistical considerations. Discusses shipping and air cargo regulations including hazardous material (hazmat) and security issues. Explores domestic and international air cargo considerations.

AVSC 3090 Airline and Dispatch Operations 3:3:0 On Sufficient Demand
* Prerequisite(s): AVSC 2150, AVSC 2160, (AVSC 2110 or AVSC 3010), and University Advanced Standing

Introduces airline and corporate flight department operations and flight dispatch procedures. Teaches effects of weather, air traffic control and maintenance on fleet logistics. Introduces responsibilities of dispatchers, routers, maintenance controllers, and general system operations. Covers pertinent crew and operational federal aviation regulations. Examines tools and practices of airline system control and corporate flight departments. Explores responsibilities and authority of dispatchers and schedulers. May be delivered online.

AVSC 3100 Corporate Aviation Management 3:3:0 On Sufficient Demand
* Prerequisite(s): AVSC 2150 and University Advanced Standing

Introduces basic principles of corporate flight department management. Discusses regulatory requirements in corporate aviation, acquisition procedures, insurance requirements, and pilot certification programs. Explores fractional ownership programs and management.

AVSC 3110 Aviation Security 3:3:0 Spring
* Prerequisite(s): AVSC 2150, AVSC 2160, and University Advanced Standing

Presents advanced security issues related to aviation including passenger screening, profiling, hijacking, bomb threats and passenger disruptions. Covers historical incidents and studies a variety of responses to threats from various countries. Discusses the role of the Department of Homeland Security and the Transportation Security Administration. Covers the role of pilots and other flight crew in security, including the Federal Flight Deck Officers Program. Includes a discussion of regulatory issues and laws established since the 9/11 attacks. May be delivered online.

AVSC 3120 Airport Management 3:3:0 Spring
* Prerequisite(s): AVSC 2150, AVSC 2160, and University Advanced Standing

Explores airport management at both small and large airports. Emphasizes basic requirements and attributes of successful airport managers. Course includes discussion of local and state airport finance and regulatory issues. Discusses pertinent Federal Aviation Regulations and security issues. May be delivered online.

AVSC 3140 Fixed Base Operations Management 3:3:0 On Sufficient Demand
* Prerequisite(s): AVSC 2150 and University Advanced Standing

Prepares students for employment and management at a fixed base operation and related general aviation management. Covers the organization, profit, maintenance, and safety systems concerning fixed base operators. Presents pertinent Federal Aviation Regulations, facility management, and advertising issues.

AVSC 3150 Principles of Aviation Management 3:3:0
* Prerequisite(s): AVSC 2070 and University Advanced Standing

Teaches principles of aviation management including the management process, decision-making, and organizational structure. Covers leadership skills including communication, fostering team work, conflict resolution, and human resource management. Analyzes the importance of ethics and social responsibility as well as developing and crafting executive strategies. Studies organizational culture and effective management of innovation and change. May be delivered online.
AVSC 3200
Flight Physiology
3:3:0  Fall
* Prerequisite(s): AVSC 1240 and University Advanced Standing
For pilots with a career goal in commercial Aviation. Teaches physiological and psychological factors that affect pilot performance. Studies issues such as human error, fatigue, fitness, attitudes, training devices, controls, cabin space, and human payload. Includes lecture, demonstration, experiments, group projects, class discussion, and possible guest lecturers. May be delivered online.

AVSC 3210
Aircraft Incident and Emergency Management
3:3:0  On Sufficient Demand
* Prerequisite(s): AVSC 2130 and University Advanced Standing
Teaches how to develop a pre-accident plan addressing the issues of chain and command responsibility, initial response to safety and security issues, and the coordination of human and material resources for public safety. Emphasizes post crash/aircraft incident preservation of forensic evidence. May be delivered online.

AVSC 3220
Aircraft Accident Investigation
3:3:0  On Sufficient Demand
* Prerequisite(s): AVSC 2160 and University Advanced Standing
Explores the fundamental requirements of aircraft mishap and accident investigation. Covers the initial gathering and preservation of evidence at the crash site, including photographic and videographic documentation, assessing environmental factors, human factor considerations, aircraft maintenance status, and air traffic control considerations.

AVSC 3230
Accident Witness Interviewing
3:3:0  On Sufficient Demand
* Prerequisite(s): AVSC 3210 or AVSC 3220) and University Advanced Standing
Teaches the currently recommended techniques for conducting an accident witness interview and common mistakes. Presents methods of evaluating and analysis of interview information. Case studies and role playing will be used in classroom exercises.

AVSC 3240
Aviation Accident Reporting
3:3:0  On Sufficient Demand
* Prerequisite(s): (AVSC 3210 or AVSC 3220), ENGL 1010, and University Advanced Standing
Teaches the student a working knowledge of preparing a complete aircraft mishap/accident report that includes the factual information, analysis, and conclusions, including probable causes, and aviation safety recommendations. Involves turning accident investigation data into an accident report.

AVSC 3300
Jet Transport Systems
3:3:0  Spring
* Prerequisite(s): AVSC 2300, AVSC 2440, and University Advanced Standing
For the commercial pilot desiring training in turbine driven engines, thrust vectoring, pneumatics, electrical, hydraulic, and auxiliary systems. Includes subjects such as pressurization, de-ice and anti-ice, environmental, and warning systems. Utilizes schematic drawings, computer based trainers, and various jet operating manuals. Includes lecture, class discussion, demonstrations, group practice, and possible guest lecturers. May be delivered online.

AVSC 3310
Aviation Logistics Management
3:3:0  On Sufficient Demand
* Prerequisite(s): AVSC 2150, AVSC 3150, and University Advanced Standing
Examines functional areas of supply, maintenance, transportation and services at operational, strategic and tactical levels. Covers facilities, manpower, labor relations, financial and system management, contract administration, analytical techniques and decision making. Uses a variety of case studies and examples of various transportation companies, airlines, and support groups. May be delivered online.

AVSC 3320
Aviation Managerial Accounting
4:4:0  On Sufficient Demand
* Prerequisite(s): AVSC 2150 and (MAT 1000 or MAT 1010) and University Advanced Standing
Provides aviation administration students with knowledge of financial, managerial, and basic cost accounting concepts and applications. Introduces basic accounting methods, accounting information systems and the utilization of accounting information in the decision making process. Uses aviation industry case studies and examples. May be delivered online.

AVSC 3350
Aviation Labor and Human Resource
3:3:0  On Sufficient Demand
* Prerequisite(s): AVSC 2150, AVSC 2160, AVSC 3150, and University Advanced Standing
Focuses on effective management of human resources in the unique environment of the aviation industry. Teaches planning, recruitment, selection, training, development, labor relations, employee benefits and compensation, employee legal issues, termination and unemployment, and applicable state and federal regulations. May be delivered online.

AVSC 3400
High Altitude Navigation/International Flight Operations
3:3:0  Fall
* Prerequisite(s): AVSC 3200 and University Advanced Standing
Covers the advanced navigation systems of commercial aircraft. Explores VOR/DME, Loran-C, IRS (three ring laser gyro), and GPS navigational aids. Teaches the operation of the "Glass Cockpit" flight data center. Explains international flight operations. Uses in class lectures, demonstrations, individual experimentation, and computer based trainer experience. May be delivered online.

AVSC 3530
Advanced Aerodynamics
3:3:0  Spring
* Prerequisite(s): AVSC 3300, MAT 1010, and University Advanced Standing
For commercial pilots. Teaches the aerodynamics involved in commercial aircraft. Includes aircraft turning and accelerated climb performance, take off velocity, load factors, hypersonic flight, and laminar flow airfoils. Includes demonstration, examples, experiments, and class discussion. May be delivered online.

AVSC 3600
Crew Resource Management
3:3:0  Fall
* Prerequisite(s): AVSC 3110 and University Advanced Standing
Explores concepts of Crew Resource Management (CRM). Covers crew coordination, communication, and resource management in a professional aviation atmosphere. Utilizes class discussions, role plays, lecture, guest lecturers, and group experiences. May be delivered online.

AVSC 3610
Aviation Safety and Security
3:3:0  On Sufficient Demand
* Prerequisite(s): AVSC 2050 and University Advanced Standing
Explores aviation safety and security in the 21st century. Surveys metallurgy, airframe stress analysis, psychology, pathology, and toxicology, flammable and explosive materials analysis, destructive and non-destructive material analysis as they apply to aviation safety and security.

AVSC 3740
Advanced Methods in Aviation Investigation
3:3:0  On Sufficient Demand
* Prerequisite(s): AVSC 3220 and University Advanced Standing
Teaches current scientific techniques for the analysis of aircraft materials, components, performance and design. Considers aircraft crashworthiness. Discusses the process of establishing facts from analysis and the findings of an aircraft investigation and probable vs. proximate cause.

AVSC 4020
Applied Aviation Finance
3:3:0  On Sufficient Demand
* Prerequisite(s): AVSC 2150, ACC 3000, and University Advanced Standing
Examines financial management in the aviation corporate and public sectors and the role of financial markets and institutions. Introduces finance terminology and concepts. Discusses time value of money, fundamentals of security valuation, capital asset pricing model and capital budgeting. Introduces weighted average cost of capital and contrasts debt policy and governance in the public and private aviation sectors. May be delivered online.
AVSC 410G
Global Ethical and Professional Issues in Aviation
3:3:0 Fall
* Prerequisite(s): AVSC 3600, PHIL 2050, (ENGL 1010 or ENGL 2020), and University Advanced Standing

Designed for aviation managers and pilots to develop a global perspective and understanding of key intercultural issues facing aviation. Studies the role of multi-culturalism and globalization, especially where these issues impact safety and the business environment. Includes a study of aviation regulation and scenario-based problem solving skills. May be delivered online.

AVSC 4210
Flight Turbine Transition
1:0:3 On Sufficient Demand
* Prerequisite(s): AVSC 2300, AVSC 2310, and University Advanced Standing

Covers the required training experience in preparation for an FAA airplane type rating practical exam. Includes start up, taxi, take-off, en-route, approach, landing, shutdown, and emergency procedures. Requires individualized instruction in a cockpit procedures trainer, simulator or aircraft. Proof of earned airplane type rating is required.

AVSC 4300
Ground Airline Transport Pilot/Aircraft Dispatcher
3:3:0 On Sufficient Demand
* Prerequisite(s): AVSC 3010 and University Advanced Standing

Discusses aircraft aerodynamics, airspace and airports, air traffic control, aviation weather, and aero-medical factors and applicable NTSB and FAA regulations. Analyzes the aspects of decision making and professionalism in aviation. Prepares students for the required FAA Airline Transport Pilot Aircraft 121 (ATP), FAA Airline Transport Pilot Aircraft 135, or Aircraft Dispatcher (AD) Knowledge Tests.

AVSC 4310
Flight Airline Transport Pilot
1:0:3 On Sufficient Demand
* Prerequisite(s): AVSC 2300, AVSC 2310, and University Advanced Standing

Focuses on the areas necessary to pass an Airline Transport Pilot Practical Test. Covers pre-flight, takeoff and departure, in-flight maneuvers, instrument procedures, approaches and landings, normal and abnormal procedures, emergency procedures and postflight procedures. Prepares students for the required FAA Airline Transport Pilot Aircraft Practical Test.

AVSC 4700
Safety and Professional Seminars
3:3:0 Spring
* Prerequisite(s): AVSC 3600 and (ENG 1010 or ENG 2020) and University Advanced Standing

Includes FAA safety seminars and other professional presentations designed to inform commercial pilots or aviation administration personnel of safety and professional issues affecting employment. Features FAA safety counselors, and other aviation professionals as guest lecturers. May be delivered online.

AVSC 475R
Current Topics in Aviation
1 to 3:1 to 3:0 Fall, Spring, Summer
* Prerequisite(s): AVSC 1010 and University Advanced Standing

Presents selected topics in Aviation Sciences and will vary each semester. Requires a special project related to the area of study. May be repeated with different topic areas for a maximum of 6 credits toward graduation.

AVSC 4800
Professional Pilot Capstone
4:4:0 Spring
* Prerequisite(s): AVSC 3300 and University Advanced Standing

Teaches systems, operations and performance limitations of the CRJ. Emphasizes operating practices, along with systems indoctrination, and procedures training. Includes systems and operations common to most turbine and transport category aircraft. Provides insight into the rigors of studying for ground school systems class. Utilizes lecture, demonstration, and cockpit procedure trainers. Student who complete the course should be prepared to pass the applicable written exam. May be delivered online. Software fee of $100 applies.

AVSC 481R
Cooperative Work Experience
1 to 8:0:5 to 40 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Corequisite(s): AVSC 485R

For upper division Aviation majors. A current job in an aviation related field required prior to registering for this course. Course content is individualized, with students setting objectives in consultation with their faculty coordinator and their on-the-job supervisor. Credit is determined by the number of hours a student works during the semester. (One credit for each five hours of work per week.) May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit. May be delivered online.

AVSC 485R
Cooperative Related Class
1:1:0 Not Offered
* Prerequisite(s): Current job in an aviation related field and University Advanced Standing
* Corequisite(s): AVSC 481R

For upper division Aviation majors. Designed to enable students with career aspirations in aviation related fields to begin career planning. Enhances a student's knowledge, personal development, professional development and professional preparation by integrating academic study with practical experience and resume preparation. May be repeated for a maximum of 2 credits toward graduation. May be delivered online.

AVSC 4900
Aviation Administration Capstone
3:3:0 Spring
* Prerequisite(s): AVSC 3350, AVSC 4020, and University Advanced Standing

Provides aviation administration students with the opportunity to practice and apply their cumulative knowledge acquired over the entire course of study. Teaches the components of formulating a strategic plan, implementing and controlling its execution, and evaluating its success. Applies principles of accounting, finance, economics, labor, logistics, operations, research and development and strategy through a simulation and aviation specific case studies. May be delivered online.

AVSC 491R
Undergraduate Research Project
3 to 6:2:3 to 12 Not Offered
* Prerequisite(s): AVSC 3200, AVSC 3600, (ENG 1010 or ENG 2020), Matriculation into Bachelor's Degree, and University Advanced Standing

Combines and integrates concepts, methodologies, and skills developed in previous AVSC course work through the completion of a comprehensive project. Students will develop their own project and portfolio in consultation with a faculty advisor. A list of detailed guidelines for the project is available from the Aviation Science Department. May be repeated three times for a maximum of 6 credits.

Behavioral Science (BESC)

BESC 1000
Behavioral Science Forum
2:2:0 On Sufficient Demand

For students interested in exploring a Behavioral Science major. Offers an overview of curriculum, major requirements, faculty and their specialties, study and writing helps and guidelines, campus resources and career possibilities. Utilizes lectures, guest speakers, field trips, and application-oriented activities.

BESC 107G
Multicultural Societies
3:3:0 SS Fall

Examines societies and cultures within the kinships, beliefs, values and political backgrounds related to differing ethnic groups. Provides a forum for constructive interaction among people of differing economic, social, racial, ethnic and religious backgrounds.

BESC 2705
Ethics for the Behavioral Sciences
3:3:0
* Prerequisite(s): (PSY 1010 or SOC 1010 or ANTH 101G or SOC 1200) and ENGL 1010 with a minimum C + grade

Addresses the legal and ethical responsibilities of the helping professional. Assists students in learning to interpret and act upon situations appropriately and effectively. Includes issues such as client rights, confidentiality, duty to warn and protect, dual relationships, supervision and consulting, ethics with special populations, and ethical decision-making models.
BESC 295R
Beginning Research Experience
1 to 3:0 to 3:0
* Prerequisite(s): Instructor approval; BESC department major
Provides a mentored experience to assist on a faculty member's research project. Begin to explore academic literature to investigate topics of interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Includes literature searches, materials creation, data collection, or other options as approved by the instructor. May be repeated for a maximum of six credits toward graduation. May be graded Credit/No Credit.

BESC 3010
Statistics for the Behavioral Sciences
4:4:0 Fall, Spring, Summer
* Prerequisite(s): (MAT 1000 or higher) and (PSY 1010 or SOC 1010) and (admission into BSW program or declared major in Behavioral Science) and University Advanced Standing
Introduces use of statistics for research purposes. Teaches descriptive and inferential statistics. Includes central tendency, variability, correlation and regression, probability (particularly probability distributions), and various inferential techniques such as t-test for independent and dependent samples, one-way and two-way analysis of variance, post-hoc tests, and non-parametric statistics. May be delivered hybrid and/or online.

BESC 3020
Research Methods for the Behavioral Sciences
3:3:0 Fall, Spring, Summer
* Prerequisite(s): BESC 3010 and (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a grade of C+ or higher) and (admission into BSW program or declared major in Behavioral Science) and University Advanced Standing
Introduces research methods commonly used in behavioral science research. Includes data, subjects, populations, and various experimental designs including non-experimental and quasi-experimental methods, and experimental designs, including within and between subject designs. Presents basic reasoning behind inferential statistics, without the detail. Requires a student designed research project and write-up of the results in APA Style. May be delivered hybrid.

BESC 3100
Career and Graduate School Preparation for Behavioral Science Majors
3:3:0 Fall, Spring
* Prerequisite(s): (ANTH 101G or PSY 1010 or SOC 1010 or SW 1010) and (ENGL 2010 or ENGL 2020 with a C+ or higher) and (admission into BSW program or declared major in Behavioral Science) and University Advanced Standing
Emphasizes the development of skills necessary to successfully apply for employment and/or graduate school. Includes resume writing, cover letters and basic interview skills, preparation of acceptable application packages, and learning how to network with school and community resources to find employment and/or graduate school opportunities.

BESC 3410
Fundamentals of Mediation and Negotiation
3:3:0 Fall, Spring, Summer
* Prerequisite(s): (PSY 1010 or SOC 1010 or SW 1010 or COMM 1050) and University Advanced Standing
Teaches students to understand and participate knowledgeably on a basic level in the processes of mediation and negotiation. Emphasizes conceptual knowledge of both processes and improves practical skills and effectiveness as a mediator and negotiator. Uses an interactive-workshop format that blends theory with simulated case role-play.

BESC 4030
Introduction to Practice Evaluation and Grant Writing
3:3:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher), BESC 3010, BESC 3020, and University Advanced Standing
Provides practical guidance for conducting an evaluation study from its inception, through the planning stage, to research design, data collection, data analysis and the reporting, dissemination, and application of conclusions.

BESC 205R
Beginning Research Experience
1 to 3:0 to 3:0
* Prerequisite(s): Instructor approval; BESC department major
Provides a mentored experience to assist on a faculty member's research project. Begin to explore academic literature to investigate topics of interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Includes literature searches, materials creation, data collection, or other options as approved by the instructor. May be repeated for a maximum of six credits toward graduation. May be graded Credit/No Credit.

BESC 3010
Statistics for the Behavioral Sciences
4:4:0 Fall, Spring, Summer
* Prerequisite(s): (MAT 1000 or higher) and (PSY 1010 or SOC 1010) and (admission into BSW program or declared major in Behavioral Science) and University Advanced Standing
Introduces use of statistics for research purposes. Teaches descriptive and inferential statistics. Includes central tendency, variability, correlation and regression, probability (particularly probability distributions), and various inferential techniques such as t-test for independent and dependent samples, one-way and two-way analysis of variance, post-hoc tests, and non-parametric statistics. May be delivered hybrid and/or online.

BESC 3020
Research Methods for the Behavioral Sciences
3:3:0 Fall, Spring, Summer
* Prerequisite(s): BESC 3010 and (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a grade of C+ or higher) and (admission into BSW program or declared major in Behavioral Science) and University Advanced Standing
Introduces research methods commonly used in behavioral science research. Includes data, subjects, populations, and various experimental designs including non-experimental and quasi-experimental methods, and experimental designs, including within and between subject designs. Presents basic reasoning behind inferential statistics, without the detail. Requires a student designed research project and write-up of the results in APA Style. May be delivered hybrid.

BESC 3100
Career and Graduate School Preparation for Behavioral Science Majors
3:3:0 Fall, Spring
* Prerequisite(s): (ANTH 101G or PSY 1010 or SOC 1010 or SW 1010) and (ENGL 2010 or ENGL 2020 with a C+ or higher) and (admission into BSW program or declared major in Behavioral Science) and University Advanced Standing
Emphasizes the development of skills necessary to successfully apply for employment and/or graduate school. Includes resume writing, cover letters and basic interview skills, preparation of acceptable application packages, and learning how to network with school and community resources to find employment and/or graduate school opportunities.

BESC 3410
Fundamentals of Mediation and Negotiation
3:3:0 Fall, Spring, Summer
* Prerequisite(s): (PSY 1010 or SOC 1010 or SW 1010 or COMM 1050) and University Advanced Standing
Teaches students to understand and participate knowledgeably on a basic level in the processes of mediation and negotiation. Emphasizes conceptual knowledge of both processes and improves practical skills and effectiveness as a mediator and negotiator. Uses an interactive-workshop format that blends theory with simulated case role-play.

BESC 4030
Introduction to Practice Evaluation and Grant Writing
3:3:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher), BESC 3010, BESC 3020, and University Advanced Standing
Provides practical guidance for conducting an evaluation study from its inception, through the planning stage, to research design, data collection, data analysis and the reporting, dissemination, and application of conclusions.

BESC 4040
Advanced Mediation and Negotiation
3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher), BESC 3010, BESC 3020, and University Advanced Standing
Prepares students to perform at an advanced level in the processes of mediation and negotiation. Builds on the fundamentals learned in the basic course, improves knowledge of both processes, and sharpens practical skills and effectiveness as a mediator or negotiator. Uses an interactive-workshop format that blends theory with simulated case role-play.
BESC 481R
Senior Internship
1 to 8:0 to 40 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher), BESC 3010, BESC 3020, and University Advanced Standing
* Corequisite(s): BESC 485R

Allows Behavioral Science students with non-clinical orientation to receive behavioral science credits for interning in a governmental, corporate, or private agency apart from their regular employment. Provides practical and research experience over the course of the 15 week semester. Supervised by agency representative. Internships approved by faculty and written contracts must be signed. May be repeated for a maximum of 8 credits toward graduation. May be graded Credit/No credit. May be delivered online.

BESC 485R
Internship Seminar
1:1:0
* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher), BESC 3010, BESC 3020, and University Advanced Standing
* Corequisite(s): BESC 481R

Provides integration of classroom learning with learning that takes place in an on-site internship. To be taken concurrently with BESC 481R. Senior Internship. Repeatable for a maximum of 8 credits toward graduation.

BESC 495R
Advanced Research Experience
1 to 3:1 to 3:0
* Prerequisite(s): (ANTH 101G or FAMS 1010 or PSY 1010 or SOC 1010 or SW 1010) with a C grade or higher; Instructor approval; BESC department major; University Advanced Standing

Provides a mentored experience to significantly assist on a faculty member’s research project or carry out an independent research project of the student's design under faculty mentorship. Requires individual initiative and responsibility. Includes limited formal instruction. Includes literature searches, completion of the IRB application process, materials creation, data collection, data analysis, writing a publishable paper, preparing a poster, preparing an oral presentation, or other options as approved by the instructor. May be repeated for a maximum of nine credits toward graduation. May be graded credit/no credit.

Biology (BIOL)

BIOL 1010 BB General Biology
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-

Introduces major themes and concepts of biology including cell and molecular biology, genetics, diversity, evolution, and ecology. Provides students with necessary information and skills to critically evaluate what they hear, read, and see in the living world; communicate clearly; and apply methods to interpret data for making informed decisions concerning the role of biology in a world of which they are a part. May be delivered online.

BIOL 1015 General Biology Laboratory
1:0:2 Fall, Spring, Summer
* Prerequisite(s) or Corequisite(s): BIOL 1010

A general laboratory experience covering introductory topics in general biology. Designed to complement the student's experience in the General Biology 1010 course with emphasis on the application of the scientific method. Includes actual student experiences with living organisms, use of the microscope, field excursions and an introduction to techniques used in the study of life.

BIOL 101H BB General Biology
3:3:0 On Sufficient Demand
* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL1010 (or higher) with a minimum grade of C-
* Corequisite(s): BIOL 1015

Encourages students to understand and link concepts related to metabolism, photosynthesis, evolution, ecology, patterns of inheritance and genetics, human disease, physiology and organ systems, biological diversity, and environmental issues. Writing is emphasized in the course, including a term paper on a relevant and timely biological topic, as well as essay examinations.

BIOL 1070 Heredity
3:3:0 On Sufficient Demand
* Prerequisite(s): BIOL 1010 is strongly recommended

Introduces genetics for non-majors. Addresses patterns of inheritance from generation to generation (with an emphasis on human heredity), DNA structure and function as well as other aspects of molecular genetics.

BIOL 1200 (Cross-listed with: GEO 1020) BB Prehistoric Life
3:3:0 Spring
* Prerequisite(s): BIOL 1010 or GEO 1010 recommended

Studies prehistoric life. Uses the concepts of biology and physical science. Studies major groups of ancient animals and plants as found in the rock record. Includes aspects and fundamental concepts of biology, ecology, and geology.

BIOL 1500 (Cross-listed with: ANTH 1020) BB Biological Anthropology
3:3:0 Fall
* Prerequisite(s): ENGL 1010 and (ANTH 101G or BIOL 1010)

For students with special interests in Anthropology or the Life Sciences. Studies fossils and living primates, primate biology and behavior. Surveys humanoid fossils. Investigates human evolution and variations of basic biology as it pertains to human development. Stresses the importance of the distribution and diversity of humankind.

BIOL 1610 BB College Biology I
4:4:0 Fall, Spring, Summer
* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-
* Corequisite(s): BIOL 1615

Designed to give biology majors a broad exposure to many aspects of the life sciences. Covers topics of biochemistry, energetics, cell structure and function, genetics, and evolution.

BIOL 1615 BB College Biology I Laboratory
1:0:3 Fall, Spring, Summer
* Prerequisite(s) or Corequisite(s): BIOL 1610

Laboratory course to accompany BIOL 1610. Topics covered include scientific method, biomolecules, cell structure and function, cellular reproduction, Mendelian and molecular genetics, DNA technology, and evolution. Course Lab fee of $20 applies.

BIOL 1620 BB College Biology II Laboratory
3:3:0 Fall, Spring, Summer
* Prerequisite(s): BIOL 1610 with a C- or higher
* Corequisite(s): BIOL 1625

Provides the second semester material in the two semester introductory course designed for biology majors. Covers origin and early evolution of life, plant structure and function, plant diversity, animal structure and function, animal diversity, and animal behavior.

BIOL 1625 College Biology II Laboratory
1:0:2 Fall, Spring, Summer
* Corequisite(s): BIOL 1620

Laboratory course to accompany BIOL 1620. Topics covered include animal biology and diversity and plant biology and diversity. Course Lab fee of $24 for lab, transportation applies.

BIOL 202R (Cross-listed with: GEO 202R) Science Excursion
1:0:2 Fall, Spring, Summer

For students interested in the natural world. Explores a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of a minimum of a four-day field trip. Participants should gain an increased understanding of several fields of scientific study. May be repeated as many times as desired for interest, however a maximum of 3 credits may count toward graduation.

BIOL 204R (Cross-listed with: GEO 204R) BB Natural History Excursion
3:1:6 On Sufficient Demand

For students interested in the natural world. Promotes an in-depth look at a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of 15 hours of lecture plus an appropriate field trip. Participants should gain an interdisciplinary understanding of science and nature. May be repeated for up to six credits toward graduation.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Corequisites or Corequisites</th>
<th>Offered</th>
<th>Corequisites or Corequisites</th>
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</thead>
<tbody>
<tr>
<td>BIOL 2070</td>
<td>Natural History of the Colorado Plateau</td>
<td>3:1:4</td>
<td>* Corequisite(s): GEO 2070</td>
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<td>Not Offered</td>
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<td></td>
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<td>Addresses the biological component of the Natural History Course taught in conjunction with GEO 2070 at the Capitol Reef Field Station during the summer months. Teaches students about the ecology of this unique ecosystem, the plants and animals that occupy the landscapes and the interactions of the organisms with man and the environment. Provides an intense, hands-on, field course where faculty and students participate together in a natural setting. Requires students to live and learn at the field station for most of the course.</td>
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<tr>
<td>BIOL 2500</td>
<td>Environmental Biology</td>
<td>3:3:0</td>
<td>* Prerequisite(s): BIOL 1010 or BIOL 1610 is recommended</td>
<td></td>
<td>Designed to acquaint students with the principles of ecology emphasizing population dynamics, energetics, structural components, and concepts of niche and succession. Discusses the interactions of ecological principles and humanity’s technology relative to the world today and factors that influence the quality of life.</td>
<td>On Sufficient Demand</td>
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<tr>
<td>BIOL 290R</td>
<td>Special Topics In Biology</td>
<td>1 to 4:0 to 4:0 to 12</td>
<td>* Prerequisite(s): BIOL 1010 or higher or Instructor Approval</td>
<td></td>
<td>Explores and examines special topics relating to the field of Biology. Emphasizes areas of rapid growth in Biology or current importance to society. May be repeated for a total of six credits toward graduation.</td>
<td>On Sufficient Demand</td>
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<tr>
<td>BIOL 295R</td>
<td>Independent Studies in Life Sciences</td>
<td>1 to 4:0:3 to 12</td>
<td>* Prerequisite(s): At least 3 credit hours of college level biology, approval of a faculty mentor, and approval of the department chair</td>
<td></td>
<td>Provides individual studies in biology under the direction of a faculty mentor. May include literature reviews, original research, and participation in ongoing departmental projects. Introduces students to the methodology of life science research. Students will prepare oral and written reports of their projects. May be repeated for up to 4 credits toward graduation.</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>BIOL 3000</td>
<td>Developmental Biology</td>
<td>3:3:0</td>
<td>* Prerequisite(s): BIOL 1610 with a minimum grade of C- and University Advanced Standing</td>
<td></td>
<td>Examines the principles of Developmental Biology with emphasis on the specialization of cells and their organization into body plans. Recommended for Biology Majors interested in developmental processes. May be delivered online.</td>
<td>Fall</td>
<td></td>
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<tr>
<td>BIOL 3050</td>
<td>Genetics</td>
<td>3:3:0</td>
<td>* Prerequisite(s): BIOL 1610 with minimum grade of C- and University Advanced Standing</td>
<td>* Corequisite(s): BIOL 3500</td>
<td>For Biology majors. Studies the genetic basis of life and the mechanisms by which information to make life is stored in the DNA. Presents classical, molecular, and population genetics in the background of current techniques and understanding of genetic processes. Provides an understanding of the basic principles of genetics and preparation for more advanced courses beyond other aspects of biology. Requires a weekly lab.</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>BIOL 3055</td>
<td>Genetics Tutorial</td>
<td>0.5:0:1</td>
<td>* Prerequisite(s): BIOL 1610 and University Advanced Standing</td>
<td>* Corequisite(s): BIOL 3500</td>
<td>For Biology majors. Studies genetic basis of life and the mechanisms by which information to make life is stored in the DNA. Presents classical, molecular, and population genetics in the background of current techniques and understanding of genetic processes. Provides an understanding of the basic principles of genetics and preparation for more advanced courses in other aspects of biology.</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>BIOL 3400</td>
<td>Cell Biology</td>
<td>3:3:0</td>
<td>* Prerequisite(s): BIOL 1610 and University Advanced Standing with a C- or higher in each and University Advanced Standing</td>
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<td>For Biology majors or those desiring more knowledge of this subject. Studies the cell as an organism emphasizing molecular basis of cell structure and functions.</td>
<td>Fall, Spring</td>
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<tr>
<td>BIOL 3405</td>
<td>Cell Biology Laboratory</td>
<td>1:3:0</td>
<td>* Prerequisite(s): BIOL 1610 and University Advanced Standing</td>
<td>* Corequisite(s): BIOL 3400</td>
<td>Uses laboratory exercises to demonstrate topics covered in BIOL 3400. Includes experimental methods for studying cell processes, enzymes, tissue specific proteins, organelles, and experimental design. Course Lab fee of $100 applies</td>
<td>On Sufficient Demand</td>
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<tr>
<td>BIOL 3500</td>
<td>Genetics</td>
<td>3:3:0</td>
<td>* Prerequisite(s): BIOL 1610 with minimum grade of C- and University Advanced Standing</td>
<td>* Corequisite(s): BIOL 3505</td>
<td>For Biology majors. Studies the genetic basis of life and the mechanisms by which information to make life is stored in the DNA. Presents classical, molecular, and population genetics in the background of current techniques and understanding of genetic processes. Provides an understanding of the basic principles of genetics and preparation for more advanced courses beyond other aspects of biology. Requires a weekly lab.</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>BIOL 3505</td>
<td>Genetics Tutorial</td>
<td>0.5:0:1</td>
<td>* Prerequisite(s): BIOL 1610 and University Advanced Standing</td>
<td>* Corequisite(s): BIOL 3500</td>
<td>For Biology majors. Studies genetic basis of life and the mechanisms by which information to make life is stored in the DNA. Presents classical, molecular, and population genetics in the background of current techniques and understanding of genetic processes. Provides an understanding of the basic principles of genetics and preparation for more advanced courses in other aspects of biology.</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>BIOL 3515</td>
<td>Advanced Genetics Laboratory</td>
<td>1:0:4</td>
<td>* Prerequisite(s): University Advanced Standing</td>
<td>* Prerequisite(s) or Corequisite(s): BIOL 3500</td>
<td>Examines advanced aspects of classical and molecular genetic transmission and analysis. Provides hands-on experience with the methods of classical and molecular genetics. Course Lab fee of $60 applies.</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>BIOL 3550</td>
<td>Molecular Biology</td>
<td>3:3:0</td>
<td>* Prerequisite(s): BIOL 1610, CHEM 1215, and University Advanced Standing</td>
<td></td>
<td>Examines structure, organization, replication, and expression of the genome, and methods for study of genome structure and function.</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>BIOL 3555</td>
<td>Experiments in Molecular Biology</td>
<td>1:0:3</td>
<td>* Prerequisite(s): University Advanced Standing</td>
<td>* Prerequisite(s) or Corequisite(s): BIOL 3500</td>
<td>Performs experiments in molecular biology including cDNA synthesis, gene cloning, DNA sequencing, polymerase chain reaction (PCR), computer analysis of nucleic acid and protein sequences, protein expression-screening and protein separation and characterization. Course Lab fee of $150 applies.</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>BIOL 3600</td>
<td>(Cross-listed with: CHEM 3600) Biological Chemistry</td>
<td>3:3:0</td>
<td>* Prerequisite(s): CHEM 2320 and University Advanced Standing</td>
<td></td>
<td>Introduces principles of the chemical processes that define living organisms. Covers structure and function of proteins, carbohydrates, lipids, and nucleic acids. Explores metabolic pathways, biosynthesis, enzymes, thermodynamics, membrane dynamics and related processes within a living cell. Emphasizes molecular mechanisms of reactions and their outcomes.</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>BIOL 3605</td>
<td>(Cross-listed with: CHEM 3605) Biochemistry Laboratory</td>
<td>1:0:4</td>
<td>* Prerequisite(s): University Advanced Standing</td>
<td>* Corequisite(s): BIOL 3600</td>
<td>Introduces laboratory techniques in biochemistry. Studies methods and theory behind purification of proteins and nucleic acids including chromatography and electrophoresis. Uses methods in assessing enzyme activity and kinetics and protein structure analysis. Includes analysis and manipulation of DNA and RNA. Course Lab fee of $151 applies.</td>
<td>On Sufficient Demand</td>
<td></td>
</tr>
<tr>
<td>BIOL 3700</td>
<td>General Ecology</td>
<td>3:3:0</td>
<td>* Prerequisite(s): BIOL 1620 (or equivalent with instructor consent) with a C- or higher, and University Advanced Standing</td>
<td></td>
<td>Introduces the relationships between organisms and their environment, including population, community and ecosystem processes. Specific topics include adaptation to abiotic factors and the influence of these factors on distribution and abundance; survivorship, age structure, and growth of populations; life history patterns, species interactions, community structure and diversity, biome structure and distribution, and energy flow and nutrient cycles in ecosystems. Also presents the impact of humans on ecological processes.</td>
<td>Fall</td>
<td></td>
</tr>
</tbody>
</table>

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Course Descriptions

**BIOL 3705**
**General Ecology Laboratory**
1:0:2 Not Offered
Prerequisite(s): University Advanced Standing
Corequisite(s): BIOL 3700

Laboratory component to General Ecology in which students may acquire skills in the collection, analysis, and presentation of ecological data. Activities include field sampling of plant and animal populations, laboratory experiments and observations, and computer simulations. Emphasizes techniques in data management and statistical analysis, graphical representation of data, and scientific writing. Course Lab fee of $18 for lab, transportation applies.

**BIOL 3800**
**Conservation Biology**
3:3:0 Spring
Prerequisite(s): BIOL 1010 or BIOL 1620 with a minimum of C- and University Advanced Standing; BIOL 3700 strongly recommended

Presents scientific principles of conservation biology and associated cultural and ethical issues. Explores the diversity of life on this planet and how that diversity is organized and distributed. Investigates the challenges facing management of our natural resources in order to maintain healthy and productive populations and ecosystems. Course fee of $13 for materials, transportation applies.

**BIOL 4000**
**Freshwater Ecology**
4:3:2 On Sufficient Demand
Prerequisite(s): BIOL 1620 and (BIOL 2500 or BIOL 3700) with a C- or higher in each, and University Advanced Standing

Explores physical, chemical, and biological characteristics of freshwater systems, including lakes, rivers, and streams. Emphasizes freshwater habitats as ecosystems. Studies human impacts on freshwater, with particular reference to Utah and the West. Emphasizes field experience in collecting and measuring the physiochemical characteristics and different groups of organisms found in freshwater habitats. Includes weekly laboratory. Course Lab fee of $17 for lab, transportation applies.

**BIOL 4200** (Cross-listed with: PHYS 4200, CHEM 4200, GEO 4200)
**Teaching Methods in Science**
3:3:0 Fall, Spring
Prerequisite(s): Acceptance into secondary education program, senior-level standing, instructor approval, and University Advanced Standing

Examines objectives, instructional methods and curriculum for teaching science in the secondary school. Includes developing, adapting, evaluating, and using strategies and materials for teaching biological and physical sciences, appropriate both to the special needs of the learners and the special characteristics of science discipline.

**BIOL 4260**
**Ethical Issues in Biology**
2:1:2 On Sufficient Demand
Prerequisite(s): (BIOL 1610, BIOL 1620, and PHIL 2050 with a C- or higher in each) and University Advanced Standing

Offer an in-depth analysis of current ethical issues in biology. Requires extensive reading and an analytical term paper. Presents subjects in lecture, and in lab sessions, concentrates on readings and on analyses of issues and their effects on people. Explores and discusses individual participant paradigms.

**BIOL 4300**
**Bioinformatics and Genome Analysis**
4:3:2 On Sufficient Demand
Prerequisite(s): BIOL 3500 with a minimum grade C- and University Advanced Standing

Studies analysis of genomic sequences, comparison of genomes of different species to gather information about protein function. Includes hands on learning in bioinformatics and genomics. Uses a combination of computer work and discussions that will allow the student to perform basic gene and protein analysis using web tools.

**BIOL 4450**
**Immunology**
3:3:0 On Sufficient Demand
Prerequisite(s): (MICR 2060 or MICR 3450 or ZOOL 2420) and University Advanced Standing
Corequisite(s): BIOL 4455

Explores the macromolecules, cells and organs involved in innate and adaptive immunity. Examines the development of lymphocyte repertoire, positive and negative selection of lymphocytes and the production of effector lymphocytes. Studies properties of antigens, vaccines, antigen presenting cells and the mechanisms of antigen presentation. Reviews major immunological methods for medical diagnostics and other applications. Examines causes and consequences of autoimmune and lymphoproliferative diseases and immunodeficiencies. Probes how immune response could be manipulated for cancer therapy and transplantation medicine.

**BIOL 4455**
**Biological Laboratory**
1:0:2 On Sufficient Demand
Prerequisite(s): University Advanced Standing
Corequisite(s): BIOL 4450

Addresses federal, local and institutional regulations on using vertebrate animals for biomedical research. Teaches and regularly practices aseptic techniques required in handling biohazardous materials including vertebrate tissues. Studies how to collect tissues and blood from vertebrate animals and process the samples for harvesting various types of cells and macromolecules. Presents common immunological techniques such as western blot analysis and ELISA. Covers how to immunize animals using appropriate adjuvant and harvest plasma from immunized animals to isolate immunoglobulin. Examines tissue typing methodologies including PCR techniques. Course Lab fee of $150 applies.

**BIOL 4500**
**Principles of Evolution**
3:3:0 Fall, Spring
Prerequisite(s): BIOL 1620 and BIOL 3500 with a C- or higher in each, senior status, and University Advanced Standing
Corequisite(s): BIOL 3700

Focuses on the concepts of evolution as a fundamental principle of biology. Emphasizes the mechanisms and explanations of the tremendous diversity of life. Studies classical, molecular and current explanations of evolution in the background of current techniques and understanding of the genetic processes. Successful completers of this course will possess an understanding of the principles of evolution and be able to explain the various aspects of natural selection and speciation.

**BIOL 4550**
**Molecular Evolution and Bioinformatics**
3:3:0 On Sufficient Demand
Prerequisite(s): BIOL 3500 with minimum grade of C- and minimum of 6 additional credits upper division biology (BIOL, BOT, MICR, ZOOL, BTEC) courses, and University Advanced Standing

Focuses on the concepts of evolution as a fundamental principle of biology with emphasis on change at the molecular level. Teaches how natural selection shapes the evolution of genes, gene systems, macromolecules, and organisms. Explores the roles of mutation, natural selection, population size and subdivision, and genetic recombination. Introduces different approaches for testing hypotheses about how molecules evolve by using phylogenetic analysis.

**BIOL 481R**
**Biology Internship**
1 to 5:0:5 to 25 Fall, Spring, Summer
Prerequisite(s): BIOL 1620 with a C- or higher, Instructor Approval, and University Advanced Standing

Allows biology majors to earn credit while obtaining practical and research experience as an intern in a government, nonprofit, private agency, or with an approved employer. Must be supervised by an agency representative and faculty advisor. Department chairperson approval required and written contracts must be completed and signed. May be repeated with a maximum of 5 credits counting toward graduation. May be graded credit/no credit.

**BIOL 489R**
**Student Research**
1 to 4:0:3 to 12 Fall, Spring, Summer
Prerequisite(s): BIOL 1620, CHEM 1210, Junior or Senior Standing, instructor permission, and University Advanced Standing

Provides guided research studies in biology under the direction of a Biology Department faculty mentor. Includes any combination of literature reviews, original research, and/or participation in ongoing departmental projects. Involves students in the methodology of original biology research. Requires preparation and presentation of oral and/or written reports. Results may form the basis of the senior thesis in the major, if thesis option is chosen. May be repeated for 4 credits toward graduation.
BIOL 490R  
Special Topics in Biology  
1 to 4:0 to 4:0 to 8  
On Sufficient Demand  
* Prerequisite(s): BIOL 1620 and University Advanced Standing  
Explores and examines special topics relating to the field of biology. Emphasizes areas of rapid growth in biology or current importance to society. May be repeated for a total of 6 credits toward graduation.

BIOL 494R  
Student Seminar  
1:1:0  
Fall, Spring  
* Prerequisite(s): BIOL 1620 with a C- or higher, junior or senior standing, and University Advanced Standing  
Requires students to research scientific literature, give oral presentations, and lead discussions on assigned biology topics in specific areas of current research in biology. May be repeated for up to two credits toward graduation.

BIOL 497R  
Biological Colloquium  
0.5:0:5:0  
On Sufficient Demand  
* Prerequisite(s): University Advanced Standing  
Requires students to attend lectures presented every other week by department faculty and/or invited speakers. Feature lectures that are usually a summary of the speaker’s recent research results, presented at a level appropriate for junior and senior biological science majors. May be repeated for a maximum of 2 credits toward graduation.

BIOL 499R  
Senior Thesis  
1 to 2:0:3 to 6  
Fall, Spring, Summer  
* Prerequisite(s): ENGL 2010 or ENGL 2020, Junior standing, instructor permission, and University Advanced Standing  
For students who are nearing completion of a baccalaureate degree in Biology with the thesis option. Assists students who are writing a thesis based only on library research, or those who have performed laboratory/field research under BIOL 489R. Provides experience in critically analyzing published literature and, if laboratory/field research was performed, comparing research results with the scientific literature. Supervised by an appointed faculty member of the Department of Biology. Requires a technically accurate report on one’s findings. Includes the opportunity to present the research results to students, faculty and the community at a Department of Biology seminar. May be repeated once for a total of 2 credits toward graduation.

BIOL 525R  
Advanced Topics for Biology Teachers  
1 to 5:1 to 5:0 to 10  
Not Offered  
* Prerequisite(s): Departmental Approval  
For licensed teachers or teachers seeking to re-certify their biology endorsement from the Utah State Office of Education. Teaches principles of biology and pedagogy of teaching biology for teachers in public or private schools. Emphasizes correlation with the Utah Core Curriculum, the National Science Education Standards, and the Benchmarks of Project 2061. Topics will vary.

BIOL 579R  
Special Topics  
2:2:0  
Spring  
* Prerequisite(s): University Advanced Standing  
Focuses on issues that are current and often changing in regulatory affairs, such as international regulations. Engages students in discussion and lectures with industry experts on cutting-edge issues that impact how medical devices and pharmaceuticals are regulated for compliance and safety. May be repeated for a maximum of 6 credits toward graduation. May be delivered online.

BIOL 600  
Regulatory Affairs for Life Sciences  
4:4:0  
Fall  
* Prerequisite(s): Acceptance into the Graduate Certificate in Regulatory Affairs for Life Sciences or Instructor Approval  
Introduces regulatory affairs as practiced by medical device and biopharma companies in the US. Focuses on United States Federal Drug Administration and International Conference on Harmonization of Technical Requirements for Registration of Pharmaceuticals for Human Use guidelines and best practices.

BIOL 6010  
Quality Management Systems for the Life Sciences  
2:2:0  
Spring  
* Prerequisite(s): BIOL 6000  
Introduces FDA and International Conference on Harmonization (ICH) requirements for the QSR (Quality System Regulation). Focuses on ISO 13485 and related guidelines. Specifically covers the regulations and standards which are the basis of the regulated life science industry. May be delivered online.

BIOL 6020  
Design Control and Risk Management for the Life Sciences  
3:3:0  
Spring  
* Prerequisite(s): BIOL 6000  
Introduces design control and risk management requirements for medical device and BioPharma companies.

BIOL 660R  
Capstone Project  
1:1:0  
Spring  
* Prerequisite(s): BIOL 6020  
Applies knowledge learned in the Regulatory Affairs sequence of courses to the real world. Allows students to work with faculty members and industry experts to design and complete a project that incorporates various concepts that have been presented in previous Regulatory Affairs courses. May be repeated for a maximum of 3 credits toward graduation.

BIOL 681R  
Biology Internship  
1 to 5:0:5 to 25  
Spring  
* Prerequisite(s): Instructor Approval  
Allows students to earn credit while obtaining practical and research experience as an intern in a government, nonprofit, private agency, or with an approved employer. Must be supervised by agency representative and faculty advisor. Department chairperson approval required and written contracts must be completed and signed. May be repeated with a maximum of 5 credits counting toward graduation. May be graded credit/no credit.

BIT 1010  
Building Codes  
3:3:0  
Fall, Spring, Summer  
Teaches the nonstructural standards of the Uniform Building Code. Includes occupancy classifications, building area, height and location limits, exit requirements, and fire-resistant standards. May be delivered online.

BIT 1020  
Residential Codes  
3:3:0  
Fall, Spring  
Teaches the nonstructural standards of the International Residential Code. Includes foundations, walls, floors, roofs, finishes, heating, cooling, plumbing and electrical codes as they apply to residential construction. May be delivered online.

BIT 1170  
Field Lab--Building Codes  
1:0:3  
Fall, Spring, Summer  
For students, building inspectors, architects, and builders. Provides practical on-the-job experience in inspecting footings, foundation walls, reinforcement steel, the building structure, and interior and exterior coverings.

BIT 1230  
Plan Review  
3:3:0  
Fall, Spring  
* Prerequisite(s): BIT 1010 or instructor’s approval.  
Designed to introduce students to the techniques of nonstructural plans examination through familiarization of the plan and construction documents, specifications, and the application of code requirements. May be delivered hybrid.

BIT 1240  
Plumbing Codes  
3:3:0  
Fall, Spring, Summer  
A comprehensive study of plumbing code requirements relating to the principles of plumbing design, materials, installation standards, water and gas distribution systems, storm and sanitary sewer systems, water heaters, and mobile home connections. May be delivered online.

BIT 1330  
Mechanical Codes  
3:3:0  
Fall, Spring, Summer  
This is a comprehensive course which covers the entire Uniform Mechanical Code. Students will gain a working knowledge of requirements for mechanical systems, including heating, cooling, duct, ventilation, refrigeration, kitchen hood and ducts, fuel-gas piping, appliance venting, combustion air, and related requirements. May be delivered online.

BIT 1340  
Electrical Codes  
3:3:0  
Fall, Spring, Summer  
Studies the National Electrical Code in its entirety. Covers electrical wiring systems, methods, electrical equipment, special occupancies, special equipment, special conditions, and communication systems. May be delivered online.
Course Descriptions

BIT 1380 Ride-Along Lab 1:0:3 Fall, Spring, Summer
For students, building inspectors, architects, and builders. Students will accompany a building inspector as he or she conducts on-the-job inspections. There will be a rotation system established to give students experience in a variety of jurisdictions. This class is for fourth-semester students only.

BIT 281R Cooperative Work Experience 1 to 8:0:5 to 40 Fall, Spring
* Corequisite(s): BIT 285R the first time only
For Building Inspection Technology majors. Provides paid, on-the-job work experience in the student's major. Work experience, the correlated class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. Up to 16 credits total between BIT 281R and BIT 265R may be taken toward graduation. May be graded credit/no-credit.

BIT 285R Cooperative Correlated Class 1:1:0 Fall, Spring
* Corequisite(s): BIT 281R the first time only
For Building Inspection Technology Majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study. Take up to 16 credits total between BIT 281R and BIT 285R.

Business/Marketing Education (BMED)

BMED 4250 Methods of Teaching Business and Marketing 3:3:0 Fall
* Prerequisite(s): EDSC 3000, LEGL 3000, MKTG 2200, ECON 2020, MKTG 3600, or instructor approval, and University Advanced Standing
Provides an opportunity for prospective teachers to become facilitators of learning specifically by planning, developing, delivering, and evaluating basic business and marketing curriculum. Provides the background and foundation of business/marketing teacher education for students seeking a secondary education degree. Includes textbook selection, student organizations, professional associations, and advisory committees. Addresses issues and trends in business and marketing education. May be delivered hybrid. Lab access fee of $35 for transportation applies.

BMED 4300 Methods of Teaching Computer Science 3:3:0
* Prerequisite(s): (INFO 1120 or CS 1030) and (INFO 1200 or CS 1500) or Instructor Approval, and University Advanced Standing
Methodology course designed for secondary education students and current educators to gain the pedagogical knowledge and learn best practices necessary for teaching secondary computer science (CS) concepts. Combines pedagogical principles with computer science knowledge to create an effective learning environment. Includes reading, discussing, reflection, evaluation, micro-teaching, and field observations. Addresses the standards set by the International Society for Technology in Education (ISTE) for students and for teachers, and utilizes in the design, implementation, and assessment of learning materials.

BMED 4900 Business/Marketing Student Teaching Seminar 2:2:0 On Sufficient Demand
* Corequisite(s): BMED 4200, BMED 4250, Admission to Professional Education Program, and University Advanced Standing
* Corequisite(s): EDSC 4850
Discusses the student teaching environment as experienced by the students as they perform teaching responsibilities. Allows the student to draw on the experiences of other students in the class, resource people, and the seminar leader. Offered credit/no-credit.

Botany (BOT)

BOT 2050 Field Botany 3:2:3 Fall
* Prerequisite(s): BIOL 1010 or BOT 2400 recommended
For biology majors and non-majors. Covers the classification, identification, and ecology of woody plants with an emphasis on native trees and shrubs. Students completing the course should be able to identify common trees and shrubs native to Utah. Includes field trips and laboratory work. Student plant collection required. Course Lab fee of $30 for transportation applies.

BOT 2100 Flora of Utah 3:2:3 Summer
* Prerequisite(s): None. BIOL 1010 is recommended
A vascular plant taxonomy course for intended botany and biology majors or anyone interested in learning about plants native to Utah. Covers the principles of plant classification, nomenclature, and identification with an emphasis on Utah flowering plants. Includes field trips and weekly laboratory. Student plant collection required. Course Lab fee of $30 for transportation applies.

BOT 2400 Plant Kingdom 4:3:2 Spring
* Prerequisite(s): BIOL 1010 or BIOL 1610 with a minimum grade of C-
Surveys of the Divisions (Phyla) traditionally studied by botanists, emphasizing structure, reproduction, systematics, and evolution. Completers should be familiar with the morphological features of the major prokaryotic, fungal, algal, and plant groups. Includes a weekly laboratory. Course Lab fee of $24 applies.

BOT 3340 Flora of Utah 4:3:0 Fall
* Prerequisite(s): BIOL 1620 and (CHEM 1110 or CHEM 1220 or higher) with a minimum grade of C- in each, and University Advanced Standing
Designed for Biology Education majors and others wishing a one semester upper division combined plant anatomy/plant physiology course. Covers structure-function interrelationships from the cellular to whole plant level, including aspects of plant anatomy, physiology, reproduction, growth and development with emphasis on the angiosperms (flowering plants). Includes weekly laboratory. Students may not receive credit for both BOT 3340 and BOT 4100 and/or BOT 4600. Course Lab fee of $20 applies.

BOT 3700 Plant Ecology 3:3:0 Fall
* Prerequisite(s): BIOL 1620 with a C- or higher and University Advanced Standing
* Corequisite(s): BOT 3705
Studies the interrelationships between plants and their environment, including population, community, and ecosystem processes. Specific topics include adaptation to abiotic factors, plant life history patterns, species interactions such as competition and herbivory; community structure, diversity, and dynamics; biomes structure and distribution, and energy flow and nutrient cycles in ecosystems. Presents the impact of humans on plant communities and ecological processes.

BOT 3705 Plant Ecology Laboratory 1:0:2 Fall
* Prerequisite(s): University Advanced Standing
* Corequisite(s): BOT 3705
Laboratory component of Plant Ecology in which students acquire skills in the collection, analysis, and presentation of ecological data. Includes field sampling of plant populations, laboratory and greenhouse experiments, computer simulations, and scientific writing. Field trips required. Course Lab fee of $87 for lab, transportation applies.
**Course Descriptions**

**BOT 3800 Ethnobotany**

3:3:0 Spring

*Prerequisite(s): BIOL 1620 with a C- or higher and University Advanced Standing

Analyzes and evaluates interactions between people and plants. Discusses how plants are used in medicine, industry, food and culture. Covers basic concepts, including literature and field research techniques, phytochemical analysis, and ethical issues such as bioprospecting and conservation. Includes class discussions, student-led activities, oral presentations and a final project.

**BOT 4100 Plant Anatomy**

4:3:2 Not Offered

*Prerequisite(s): BIOL 1620 and BIOL 1625 with a minimum grade of C- in each, and University Advanced Standing

Covers the structure and development of cells, tissues and tissue systems in stems, roots, leaves, and reproductive structures in vascular plants, with emphasis on the angiosperms. Discusses primary and secondary plant body, including wood anatomy. Includes weekly laboratory. Students cannot receive credit toward graduation for both BOT 3340 and BOT 4100. Course fee of $15 for lab applies.

**BOT 4200 Vascular Plant Taxonomy**

3:2:2 Spring

*Prerequisite(s): (BOT 2050 or BOT 2100), (BIOL 1010 or BIOL 1620), and University Advanced Standing

Covers principles of botanical nomenclature, classification, and identification, as well as the techniques involved in gathering and analyzing taxonomic data. Includes field trips and weekly laboratory.

**BOT 4300 Native Trees and Shrubs of Utah**

3:2:2 Fall

*Prerequisite(s): BIOL 1620 with a C- or higher and University Advanced Standing; BOT 2400 suggested

Explores the diversity of woody plants of Utah, the plant communities they inhabit, and the ecological roles they play. Requires field trips; may include overnight trips as well as scheduled labs. Course Lab fee of $70 for transportation applies.

**BOT 4430 Plant Pathology**

3:2:2 Fall

*Prerequisite(s): BIOL 1610 with a minimum grade of C- and University Advanced Standing

Teaches the fundamental concepts of plant pathology. Describes plant disease symptoms and organisms that cause those diseases and methods of control and diagnosis of diseases. Includes required laboratory. Course Lab fee of $87 for lab, transportation applies.

**BOT 4500 Introduction to Grasses**

3:2:2 Fall, Summer

*Prerequisite(s): BIOL 1620 and (BOT 2100 or BOT 4300) with minimum grade of C- in each, and University Advanced Standing


**BOT 4600 Plant Physiology**

3:3:0 Spring

*Prerequisite(s): BIOL 1620 and CHEM 1220 both with a minimum grade of C-, and University Advanced Standing

*Credited Course(s): BOT 4605

Focuses on the physiological processes occurring in plants. Includes experimental techniques used in the investigation of processes such as photosynthesis, water and solute transport, tissue culture, growth regulation and responses and plant hormones. Involves problem solving and critical thinking skills. Students cannot receive credit for both BOT 4600 and BOT 3340.

**BOT 4605 Plant Physiology Laboratory**

1:0:3 Spring

*Prerequisite(s): BIOL 1610, BIOL 1615, and University Advanced Standing

*Credited Course(s): BOT 4600

Focuses on laboratory aspects of topics in BOT 4600. Covers experimental methods for studying plant physiological processes such as respiration, photosynthesis, mineral nutrition, transpiration and tissue-water relations. Course Lab fee of $35 applies.

**BOT 4700 Plant Tissue Culture**

3:1:4 Spring

*Prerequisite(s): BIOL 1610 and BIOL 1620 with a minimum grade of C- in each, and University Advanced Standing

Teaches principles of plant micro propagation techniques. Prepares the student to design and carry out their own micro propagation systems for the cultivation of a particular plant species. Course Lab fee of $60 applies.

**BOT 4800 Plant-Herbivore Interactions**

3:3:0 Not Offered

*Prerequisite(s): BIOL 1620 with a C- or higher, and University Advanced Standing

Studies the diversity of interactions between plants and herbivores, and how these interactions can affect population, community, and ecosystem-level dynamics. Topics include plant defenses, tri-trophic interactions, plant succession, and co-evolution. Implications of plant-herbivore interactions to natural resource management are considered.

**BOT 4810 Botany Internship**

1 to 5:0:5 to 12 On Sufficient Demand

*Prerequisite(s): BIOL 1620 with a C- or higher, Instructor Approval, and University Advanced Standing

Allows biology majors to earn credit while obtaining practical and research experience as an intern in a government, nonprofit, private agency, or with an approved employer. Must be supervised by agency representative and faculty advisor. Department chairperson approval required and written contracts must be completed and signed. May be repeated for a maximum of 5 credits toward graduation. May be graded credit/no credit.

**BOT 489R Student Research**

1 to 4:0:3 to 12 On Sufficient Demand

*Prerequisite(s): BIOL 1620, CHEM 1210, Junior or Senior Standing, Instructor Approval, and University Advanced Standing

Provides guided research studies in botany under the direction of a Biology Department faculty mentor. Includes any combination of literature reviews, original research, and/or participation in ongoing departmental projects. Involves students in the methodology of original botanical research. Requires preparation and presentation of oral and/or written reports. Results may form the basis of the senior thesis in the major, if the thesis option is chosen. May be repeated for 4 credits toward graduation.

**BOT 490R Special Topics in Botany**

1 to 4:0 to 4:0 to 12 On Sufficient Demand

*Prerequisite(s): BIOL 1620 with a C- or higher, and University Advanced Standing

Explores and examines special topics relating to botany. May emphasize areas of rapid growth in botanical science or areas not covered in other courses. May be repeated for a total of 8 credits toward graduation.

**BOT 499R Senior Thesis**

1 to 2:1 to 2:0 On Sufficient Demand

*Prerequisite(s): ENGL 2010 or ENGL 2020, Junior standing, Instructor Approval, and University Advanced Standing

For students who are nearing completion of a baccalaureate degree in Botany with the thesis option. Assists students who are writing a thesis based only on library research, or those who have performed laboratory/field research under BIOL 489R or BOT 499R. Provides experience in critically analyzing published literature and, if laboratory/field research was performed, comparing research results with the scientific literature. Supervised by an appointed faculty member of the Department of Biology. Requires a technically accurate report on one’s findings. Includes the opportunity to present the research results to students, faculty and the community at a Department of Biology seminar. May be repeated once for a total of 2 credits toward graduation.
### Biotechnology (BTEC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BTEC 1010</td>
<td>Fundamentals of Biotechnology I Career Survey</td>
<td>3:2:2</td>
<td>Fall, Spring, Summer</td>
<td>Explores careers in biotechnology with emphasis on central dogmas of biology, DNA techniques, applications in biotech, and bioethics. Examines forensics and human cloning. Includes lab work. Course Lab fee of $26 applies.</td>
<td></td>
</tr>
<tr>
<td>BTEC 2010</td>
<td>DNA Manipulation and Analysis</td>
<td>3:2:4</td>
<td>Fall, Spring</td>
<td>* Prerequisite(s): BTEC 1010, BIOL 1610, and BIOL 1615, with minimum grade of C- in each</td>
<td>Master lab skills relevant to DNA technology, including recombinant DNA cloning, DNA gel electrophoresis, polymerase chain reaction and DNA mutagenesis. Explore cutting-edge techniques such as DNA micro arrays. Course fee of $86 for lab applies.</td>
</tr>
<tr>
<td>BTEC 2020</td>
<td>Protein Purification and Analysis</td>
<td>3:2:3</td>
<td>Fall, Spring</td>
<td>* Prerequisite(s): BTEC 2010 with minimum grade of C-</td>
<td>Teaches current techniques with protein production, purification, and analysis. Includes instruction and practice with polyacrylamide gel electrophoresis (PAGE), chromatography, western blot, and FPLC analysis. Course fee of $107 for lab applies.</td>
</tr>
<tr>
<td>BTEC 2030</td>
<td>Cell Culture Techniques</td>
<td>2:0:6</td>
<td>Fall, Spring</td>
<td>* Prerequisite(s): BIOL 1615, MICR 2060 with minimum grade of C- in each</td>
<td>Teaches basics of prokaryote and eukaryote cell culture; includes handling, storage, and maintenance of bacterial, mammalian and yeast stocks. Emphasizes media preparation and sterile techniques. Includes in vitro labeling and transfection. Course fee of $195 for lab applies.</td>
</tr>
<tr>
<td>BTEC 2040</td>
<td>Advanced Nucleic Acid Laboratory</td>
<td>3:0:6</td>
<td>Fall, Spring</td>
<td>* Prerequisite(s): BTEC 2010 with minimum grade of C-</td>
<td>Teaches current techniques with protein production, purification, and analysis. Includes instruction and practice with polyacrylamide gel electrophoresis (PAGE), chromatography, western blot, and fast protein liquid chromatography (FPLC) analysis.</td>
</tr>
<tr>
<td>BTEC 290R</td>
<td>Special Topics In Biotechnology</td>
<td>1 to 3:0 to 3:0</td>
<td>Not Offered</td>
<td></td>
<td>Explores and examines special topics relating to the field of Biotechnology. Emphasizes areas of rapid growth in Biotechnology or current importance to society. May be repeated for a total of six credits toward graduation.</td>
</tr>
<tr>
<td>BTEC 481R</td>
<td>Biotechnology Internship</td>
<td>1 to 8:0 to 5 to 40</td>
<td>Fall, Spring, Summer</td>
<td>* Prerequisite(s): BIOL 1610 with a minimum grade of C-, junior standing in Biotechnology B.S. program, instructor approval, and University Advanced Standing</td>
<td>Allows biotechnology majors to earn credit while obtaining practical and research experience as an intern in a government, nonprofit, private agency, or with an approved employer. Must be supervised by agency representative and faculty advisor. Department chairperson approval required and written contracts must be completed and signed. May be repeated for a maximum of 10 credits. May be graded credit/no credit.</td>
</tr>
<tr>
<td>BTEC 489R</td>
<td>Student Research</td>
<td>1 to 4:0:3 to 12</td>
<td>Fall, Spring, Summer</td>
<td>* Prerequisite(s): BIOL 1610, CHEM 1210, BTEC 2010, Junior or Senior Standing, instructor permission, and University Advanced Standing</td>
<td>Provides guided research studies in biotechnology under the direction of a Biology Department mentor. Includes any combination of literature reviews, original research, and/ or participation in ongoing departmental projects. Involves students in the methodology of original biology research. Requires preparation and presentation of oral and/or written reports. Results may form the basis of the senior thesis in the major, if thesis option is chosen. May be repeated for 8 credits toward graduation.</td>
</tr>
<tr>
<td>BTEC 490R</td>
<td>Special Topics in Biotechnology</td>
<td>1 to 4:0 to 4:0 to 8</td>
<td>Fall, Spring</td>
<td>* Prerequisite(s): BIOL 1610 with minimum grade of C-, and University Advanced Standing</td>
<td>Explores and examines special topics relating to the field of biotechnology. Emphasizes areas of rapid growth in biotechnology or current importance to society. May be repeated for a maximum of 16 credits toward graduation.</td>
</tr>
<tr>
<td>BTEC 499R</td>
<td>Senior Thesis</td>
<td>1 to 2:0:3 to 6</td>
<td>Fall, Spring</td>
<td>* Prerequisite(s): ENGL 2010 or ENGL 2020, junior standing, instructor permission, and University Advanced Standing</td>
<td>For students who are nearing completion of a baccalaureate degree in Biotechnology with the thesis option. Assists students who are writing a thesis based only on library research, or those who have performed laboratory/field research under BTEC 499R. Provides experience in critically analyzing published literature and, if laboratory/field research was performed, comparing research results with the scientific literature. Supervised by an appointed faculty member of the Department of Biology. Requires a technically accurate report on one's findings. Includes the opportunity to present the research results to students, faculty and the community.</td>
</tr>
</tbody>
</table>

### Culinary Arts (CA)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Hours</th>
<th>Terms</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 1120</td>
<td>Cooking Skills Development</td>
<td>4.5:2:7:5</td>
<td>Fall, Spring</td>
<td>* Prerequisite(s): Matriculation and acceptance into the Culinary Arts Institute</td>
<td>Teaches basic food service skills in a commercial kitchen environment. Stresses the use of standardized recipes and procedures. Provides daily end product critiquing. Includes rotation between stock and sauce station, soup station, center of plate items along with appropriate starch and vegetable items, and breakfast station. Emphasizes sanitary food handling practices and professional work habits. Course fee of $750 for materials, equipment applies.</td>
</tr>
<tr>
<td>CA 1140</td>
<td>Professional Dining Room Services</td>
<td>1:0:5:1:5</td>
<td>Fall, Spring</td>
<td>* Prerequisite(s): Matriculation and Acceptance into the Culinary Arts Institute</td>
<td>Covers the key aspects and responsibilities of table servers in different styles of operations. Covers taking reservations, greeting guests, basic table settings, formal and specialized settings, food and beverage service, selling menu specials, dealing with closing checks, dealing with customer complaints, emergency procedures, and the use of a Point of Sale system.</td>
</tr>
<tr>
<td>CA 1150</td>
<td>Nutrition and Food Service</td>
<td>3:3:0</td>
<td>Fall, Spring</td>
<td></td>
<td>Provides an understanding of how and why the relationship between food and health has moved into sharp focus. This course will trace the change in dietary patterns that have been noted by the food service industry. This course has been designed to help meet the need of developing adequate healthful food programs. You will learn about the changes in eating attitudes and be able to define the various responsibilities of the food service industry. You will learn how to identify whether a market exists for a healthful food program and how to plan and manage such a program. The course will also explore nutrients and their food sources; physiological and metabolic aspects of nutrient functions; individual requirements; food choices and selection; prevention and treatment of common nutritional-related disease; along with contemporary and controversial issues. May be delivered online.</td>
</tr>
</tbody>
</table>

Culinary Arts Institute
CA 1170  
Pastry and Baking Skills  
4.5:2:7.5  Fall, Spring  
* Prerequisite(s): Matriculation and acceptance into the Culinary Arts Institute  
* Corequisite(s): CA 1120 and CA 1310  
Teaches basic baking and pastry skills in a commercial kitchen environment. Stresses the use of standardized recipes and procedures. Provides daily end product critiquing. Includes simple yeast-raised products, quick breads, pies, and custards, cakes and tortes, cookies and frozen desserts. Emphasizes sanitary food handling practices and professional work habits. Course fee of $750 for materials, equipment applies.

CA 1180  
Professional Kitchen Garde Manger  
4.5:2:7.5  Fall, Spring  
* Prerequisite(s): CA 1120 and CA 1170  
* Corequisite(s): CA 1230  
Emphasizes proper preparation of cold food items. Includes preparation of tossed, compound and composed salads, cold sandwiches, dressings, salad bar items, display platters, assorted forcemeat, smoked and cured items, along with marinated and assorted cold first course items. Course fee of $750 for materials, equipment applies.

CA 1230  
Professional Kitchen I–Cooking  
4.5:2:7.5  Fall, Spring  
* Prerequisite(s): CA 1120 and CA 1170  
* Corequisite(s): CA 1240  
Emphasizes proper preparation of center of plate foods, starch, vegetable, and small sauce cookery. Studies and utilizes contemporary methods of plating and flavor profiles. Emphasizes fabrication of beef, veal, lamb, fish, poultry and fowl. Provides daily end product for evaluation and resale. Course fee of $750 for materials, equipment applies.

CA 1260  
Culinary Spanish  
1:1:0  Fall, Spring  
* Prerequisite(s): Matriculation and Acceptance into the Culinary Arts Institute  
Designed to assist food service employers, managers, and workers to effectively communicate to an increasingly Spanish-speaking work force. Introduces short phrasing to assist in basic communication.

CA 1310  
Purchasing and Storeroom Management  
3:3:0  Fall, Spring  
* Corequisite(s): CA 1120 and CA 1170  
Teaches principles and practices concerning purchasing of foods, supplies, and materials for a modern full-service food service operation. Emphasizes buying, writing specifications, determining needs, and controlling quality. May be delivered online.

CA 1320  
Culinary Management  
3:3:0  Fall, Spring  
* Prerequisite(s): Matriculation and Acceptance into the Culinary Arts Institute  
Focuses on employee management and supervision concepts used in the food service field. Includes instruction on writing a professional resume.

CA 1480  
Sanitation and Table Service  
3:3:0  On Sufficient Demand  
Teaches effective food and beverage service management in outlets ranging from cafeterias and coffee shops to room service, banquet areas, and high-check-average dining rooms. Presents basic service principles while emphasizing the special needs of guests. Explains effective sanitation management to achieve high standards that will keep customers coming back. Includes lecture, film, and tapes. Develops an entry-level working knowledge of serving food and beverage.

CA 1490  
Food Service Sanitation  
1:1:0  Fall, Spring  
* Prerequisite(s): Matriculation and Acceptance into the Culinary Arts Institute  
Explains effective sanitation measures that will keep customers and employees safe. Using the ServSafe Program from the National Restaurant Association this course meets the state wide requirements for food service employee's sanitation and safety training.

CA 2120  
Professional Kitchen II–Restaurant  
4.5:2:7.5  Fall, Spring  
* Prerequisite(s): CA 282R  
* Corequisite(s): CA 2130  
Teaches the creation of soups, salads, appetizers, hot and cold entrees, and baked items for International Cuisine to be served in a restaurant environment. Course fee of $750 for materials, equipment applies.

CA 2130  
Advanced Pastry Baking  
4.5:2:7.5  Fall, Spring  
* Prerequisite(s): CA 1170  
* Corequisite(s): CA 2120  
Emphasizes proper preparation of plated desserts, cakes and torts, petit fours, and laminated doughs. Studies the use and role of value added dessert items, and the catering dessert requirements. Course fee of $750 for materials, equipment applies.

CA 2430  
Menu/Facilities Design and Beverage Management  
3:3:0  On Sufficient Demand  
* Prerequisite(s): CA 1310  
Introduces menu design. Explores the relationship between menus and restaurant design for both production and service areas. Explains fundamental principles and techniques for planning menus for different operation styles. Provides practical experience and approaches in beverage management and service. Emphasizes legal and moral responsibilities of serving alcoholic beverages. Teaches understanding, service, and storage of beverages in full service restaurants.

CA 2450  
Menu Design  
2:2:0  Fall, Spring  
* Prerequisite(s): CA 1310  
Introduces menu design. Explores the relationship between menus and restaurant design for both production and service areas. Explains fundamental principles and techniques for planning menus for different operation styles.

CA 2750  
Baking  
3:2:4  On Sufficient Demand  
* Prerequisite(s): Instructor Approval  
Teaches intermediate baking skills. Includes lectures, demonstrations and daily hands-on activities. Emphasizes quality products, methods/techniques and formula development.

CA 282R  
Culinary Arts Seminar  
1 to 8:0 to 2:5 to 40  Fall, Spring, Summer  
* Prerequisite(s): Culinary Arts Institute Director Approval  
Provides short courses, workshops, and special programs in Culinary Arts topics. Repeatable for up to three credits toward graduation.

CA 298R  
ACF  
1:0:5:2  Fall, Spring  
For Culinary Arts students who are interested in participating with a national professional association (American Culinary Federation). Prepares students to participate in local, state, and national competitions. May require payment of membership dues. A maximum of four credits may be applied toward graduation.

CA 299R  
VICA  
1:0:5:2  Fall, Spring  
For Culinary Arts students who are interested in participating with a national vocational student organization (Vocational Industrial Clubs of America) that develops social awareness, civic responsibility, vocational and leadership skills through participation in educational, vocational, civic, recreational, and social activities. Prepares students to participate in local, state, and national competitions. May require payment of membership dues. A maximum of four credits may be applied toward graduation.
Cabinetry and Archit Woodwork (CAW)

CAW 100R  
Survey of Working with Wood  
2:0:5  
Fall, Spring  
An introductory course for those interested in working with wood. Students will experience the satisfaction of making a piece of furniture with individualized help from the instructor. Includes "hands on" practice with woodworking equipment and instruction in methods to design, build, and finish a wood project. May be repeated up to four times for credit. Course fee of $15 for materials, equipment applies.

CAW 1100  
Artistic Wood Design  
2:1:4  
On Sufficient Demand  
Explores form, functions, and utility of wood products through students' design and creation of projects in the wood lab. Provides opportunities to design and create a unique piece of woodwork.

CAW 1130  
Residential Cabinetry  
4:1:9  
Spring  
Studies cabinetmaking methods including joinery, construction, gluing, and clamping. Includes building a set of residential cabinets. Introduces hand and portable electric and air tools. Covers tool care and minor repairs. Stresses functions, selection, maintenance, and safety. Course fee of $15 for materials, equipment applies.

CAW 1140  
Millworking and Safety Shop I  
5:0:15  
Fall  
A lab for CAW students. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Safety is taught the first 15 hours and stressed throughout the course. Course fee of $25 for materials, equipment applies.

CAW 114A  
Millworking and Safety Shop I  
2:5:0:7.5  
Fall  
Laboratory for Cabinetry students. Covers half of CAW 1140. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Teaches safety the first 15 hours and stressed throughout the course. Course fee of $15 for materials, equipment applies.

CAW 114B  
Millworking and Safety Shop I  
2:5:0:7.5  
Spring  
Laboratory for Cabinetry students. Covers half of CAW 1140. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Teaches safety the first 15 hours and stressed throughout the course. Course fee of $15 for materials, equipment applies.

CAW 1150  
Design Drafting and Billing  
3:3:0  
Fall  
For CAW majors and other interested community members. Teaches detailed drawing concepts, writing bills of materials, and material cost estimates. Uses all elements of good design.

CAW 1170  
Finish Technology  
2:2:1  
Fall  
For CAW majors and other interested community members. Studies types of stains, fillers and finishes, and techniques to properly prepare wood. Teaches hand and spray painting. Includes lab experience. Course fee of $15 for materials applies.

CAW 1210  
Cabinetmaking Materials and Hardware  
1:1:0  
Fall  
Emphasizes characteristics of wood, plastic laminates, plywoods, and particle boards. Discusses proper use and residential hardware. Covers specifications, types, selection, and installation.

CAW 1240  
Millworking Shop II  
5:0:15  
Spring  
A second semester shop course for CAW students and interested community members. Teaches the design and construction of more difficult millworking projects. Studies advanced joiners, finishing techniques, and fastening devices. Stresses safety. Course fee of $25 for materials, equipment applies.

CAW 124B  
Millworking Shop II  
2:0:6  
Spring  
A second semester shop course for CAW students and interested community members. Covers half of CAW 1240. Teaches the design and construction of more difficult millworking projects. Studies advanced joiners, finishing techniques, and fastening devices. Stresses safety. Course fee of $15 for materials, equipment applies.

CAW 1250  
Drafting and Computer Applications for Cabinetmakers  
4:4:0  
Spring  
Emphasizes design, purpose, function, appearance, materials, and construction for quality cabinetmaking. Covers efficient timesaving methods. Teaches material cost estimating. Teaches basic CNC software. Uses computer software Cabinet Vision & Master CAM. Course fee of $15 for materials, software applies. Lab access fee of $15 for computers applies.

CAW 1260  
Millworking Shop III  
5:0:15  
Fall  
Custom cabinetmaking shop. Practice in making and setting up custom shaper knives, doing custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee. Course fee of $25 for materials, equipment applies.

CAW 2300  
Counter-top Technology  
3:3:0  
Spring  
Explores methods used to produce different types of counter-tops. Studies high pressure laminates, solid wood, solid surface, tile, and stone. Includes field trips to counter-top shops. Course fee of $25 for materials, equipment applies.

CAW 2310  
Cabinetry Math  
2:2:0  
Fall  
Covers math used in cabinetmaking. Includes fractions, decimals, percents, interest, volume, and metrics. Studies special trade formulas. Students receive instruction through structured situations to cope with the special problems required in the woodworking industry.

CAW 2340  
Millworking Shop III  
5:0:15  
Fall  
Custom cabinetmaking shop. Practice in making and setting up custom shaper knives, doing custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee. Course fee of $15 for materials, equipment applies.

CAW 234B  
Millworking Shop III  
2:5:0:7.5  
Spring  
Custom cabinetmaking shop. Covers half of CAW 2340. Practice in making and setting up custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee. Course fee of $15 for materials, equipment applies.

CAW 2340  
Commercial Cabinetry Technology  
4:1:9  
Fall  
Studies zoning, shop flow, and production set. Includes field trip to commercial cabinet shop. Teaches set up of machines used in the industry. Course fee of $15 for materials, equipment applies.

CAW 2440  
Millworking Shop IV  
5:0:15  
Spring  
A culminating architectural woodworking shop. Students build projects demonstrating advanced skills learned in previous shop courses. Course fee of $25 for materials, equipment applies.
CAW 244B
Millworking Shop IV
2:0:6 Spring
Culminates previous architectural woodworking courses. Covers half of CAW 2440. Requires advanced skills, learned previously, to complete projects. Course fee of $15 for materials, equipment applies.

CAW 2450
Machine Maintenance and Upkeep
2:2:0 Spring
Studies the maintenance and upkeep of machines and tools used in the woodworking industry. Focuses on sharpening, routine maintenance, machine set-up, adjustments, and diagnosing problems.

CAW 281R
Cooperative Work Experience
1 to 8:0:5 to 40 Fall, Spring
* Corequisite(s): CAW 285R the first time only
For CAW majors. Provides paid, on-the-job work experience in the student's major. Work experience, the related class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated twice for credit. May be graded credit/no credit.

CAW 285R
Cooperative Correlated Class
1:1:0 Fall, Spring
* Corequisite(s): CAW 281R the first time only
For CAW majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lectures, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study. May be repeated twice for credit.

CAW 299R
Skills USA
1:1:0 Spring
Supports and facilitates the goals and objectives of Skills USA pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests. May be repeated for a maximum of 2 credits toward graduation.

Chemistry (CHEM)

CHEM 1010
Introduction to Chemistry
3:3:0 Fall, Spring, Summer
* Prerequisite(s): MAT 1010 or equivalent
* Corequisite(s): CHEM 1015 (optional)
 Assumes no previous knowledge of chemistry. Presents the foundations of chemistry to students who need preparation for further study in chemistry as well as to students who only want to take an introductory course. Covers chemical measurements, atomic structure, formulas, chemical reactions and equations, chemical nomenclature, stoichiometry, molecules and chemical bonding, gas laws, liquids, solids, solutions, acids and bases.

CHEM 1015
Introduction to Chemistry Lab
1:0:2 Spring
* Corequisite(s): CHEM 1010
A lab designed to accompany CHEM 1010. Provides practical experience to support chemistry foundational learning. Emphasizes chemical measurements, atomic structure, formulas, chemical reactions and equations, chemical nomenclature, stoichiometry, molecules and chemical bonding, gas laws, liquids, solids, solutions, acids and bases.

CHEM 1110
Elementary Chemistry for the Health Sciences
4:4:0 Fall, Spring, Summer
* Prerequisite(s): MAT 1010 or equivalent
 Introduces the fundamentals of chemistry to students in the health sciences. Covers chemical measurements and calculations, atomic structure, chemical bonding, chemical reactions, states of matter, solutions, chemical equilibrium, acid-base systems, and introduces organic chemistry. May be delivered hybrid.

CHEM 1115
Elementary Chemistry Laboratory
1:0:2 Fall, Spring, Summer
* Corequisite(s): CHEM 1010 or CHEM 1110
Introduces inorganic laboratory experiments including density, precipitation, determination of empirical formulas, gas laws and acid-base reactions. Course Lab fee of $20 applies.

CHEM 1120
Elementary Organic Bio-Chemistry
4:4:0 Fall, Spring
* Prerequisite(s): CHEM 1110
An introductory organic and biochemistry class for non-chemistry majors entering nursing and other allied health fields such as medical technology, physical therapy, nutrition, and environmental technology. Studies the nomenclature of organic compounds, organic functional groups and their reactivities, stereochemistry, major biomolecules and their metabolism, enzymes, chemical communications, and chemistry of heredity. May also be used to prepare for organic chemistry (CHEM 2310 and 2320). Students who need or desire laboratory work should enroll in CHEM 1125 also.

CHEM 1125
Elementary Organic Bio-Chemistry Laboratory
1:0:3 Fall, Spring
* Prerequisite(s): CHEM 1110 and CHEM 1115
* Corequisite(s): CHEM 1120
An introductory organic bio-chemistry laboratory class for non-chemistry majors who need a laboratory to accompany Elementary Organic Bio-Chemistry (CHEM 1120). Explores identifications and reactions of organic functional groups and conducts experiments with biomolecules. Course Lab fee of $76 applies.

CHEM 1210
Principles of Chemistry I
4:4:0 Fall, Spring, Summer
* Prerequisite(s): MATH 1050 or equivalent, also it is highly recommended to have prior chemistry experience in high school or in CHEM 1010 at UVU
* Corequisite(s): CHEM 1215
First semester of a full-year course primarily for students in the physical and biological sciences and engineering. Covers fundamentals of chemistry including atoms, molecules, reactions, stoichiometry, chemical bonding, thermochemistry, and gas laws.

CHEM 1215
Principles of Chemistry I Laboratory
1:0:3 Fall, Spring, Summer
* Corequisite(s): CHEM 1210
Primarily for students in the physical and biological sciences and engineering. Introduces laboratory safety and chemical waste disposal practices. Teaches techniques of using standard laboratory equipment. Shows how to record laboratory data and prepare laboratory reports. Experiments follow topics in CHEM 1210. Course Lab fee of $39 applies.

CHEM 1220
Principles of Chemistry II
4:4:0 Fall, Spring, Summer
* Prerequisite(s): CHEM 1210 with a grade of C- or higher
* Corequisite(s): CHEM 1225
Continuation of Chemistry 1210. Primarily for students in the physical and biological sciences and engineering. Covers intermolecular interactions, properties of solutions, kinetics, equilibria, thermodynamics, and electrochemistry.

CHEM 1225
Principles of Chemistry II Laboratory
1:0:3 Fall, Spring, Summer
* Prerequisite(s): CHEM 1215
* Corequisite(s): CHEM 1220
Primarily for students in the physical and biological sciences and engineering. Continuation of CHEM 1215. Experiments follow topics in CHEM 1220. Course Lab fee of $39 applies.
CHEM 2310 Organic Chemistry I 4:4:0 Fall, Spring, Summer
* Prerequisite(s): CHEM 1210 and CHEM 1220 both with a grade of C- or higher

The first in a series of two organic chemistry classes for students majoring in science and for those interested in careers in medicine, dentistry, veterinary science, and pharmacy, who must complete two semesters of organic chemistry. Teaches bonding and structures of organic molecules. Explores the relationship between structure and reactivity of organic functional groups. Introduces the concepts of nomenclature, stereochemistry, and reaction mechanism. May be delivered online.

CHEM 2315 Organic Chemistry I Laboratory 1:0:4 Fall, Spring, Summer
* Prerequisite(s): CHEM 1220, CHEM 1225
* Corequisite(s): CHEM 2310

The first of a series of two laboratory courses to accompany CHEM 2310 and 2320. For students majoring in science and those interested in careers in medicine, dentistry, veterinary science, and pharmacy. Introduces safety in organic chemistry lab and chemical waste disposal. Teaches basic separation, purification, and analytical techniques in organic chemistry such as crystallization, melting points, distillation and chromatography. Introduces organic synthesis using simple organic reactions. Introduces natural product isolation. Course Lab fee of $142 applies.

CHEM 2320 Organic Chemistry II 4:4:0 Fall, Spring, Summer
* Prerequisite(s): CHEM 2310 with a C- or higher

The second of a series of two organic chemistry classes for students majoring in science and for those interested in careers in medicine, dentistry, veterinary science, and pharmacy, who must complete two semesters of organic chemistry. Introduces spectroscopic techniques used in identification of organic compounds. Teaches carbon-carbon bond formation strategies. Introduces the concept of aromaticity. Teaches free radicals and their effects on environment and life. Surveys biologically important organic molecules such as carbohydrates, proteins, lipids, and nucleic acids. May be delivered online.

CHEM 2325 Organic Chemistry II Laboratory 1:0:4 Fall, Spring, Summer
* Prerequisite(s): CHEM 2315
* Corequisite(s): CHEM 2320

The second of a series of two laboratory courses to accompany CHEM 2310 and 2320. For students majoring in science and those interested in careers in medicine, dentistry, veterinary science, and pharmacy. Provides hands-on experience in organic synthesis using a series of single and multistep transformations. Teaches identification of products of reactions using spectroscopic techniques. Explores biologically important organic molecules. Course Lab fee of $169 applies.

CHEM 3000 Analytical Chemistry Laboratory 2:0:6 Fall
* Prerequisite(s): CHEM 2320, CHEM 2325, and University Advanced Standing
* Corequisite(s): CHEM 3005

For Chemistry majors and others interested in the basic principles of chemical measurement. Studies principles of quantitative analysis, stoichiometry, equilibrium theory, and volumetric analysis. Introduces error analysis and instrumental methods, especially electrochemistry, spectrophotometry, chromatography, and mass spectrometry.

CHEM 3005 Analytical Chemistry Laboratory 2:0:6 Fall
* Prerequisite(s): CHEM 2320, CHEM 2325, and University Advanced Standing
* Corequisite(s): CHEM 3000

For Chemistry majors and others interested in the basic principles of chemical measurement. Laboratory companion to CHEM 3000. Involves conducting experiments in quantitative and qualitative analysis, including volumetric and gravimetric analysis. Also, students will conduct experiments in introductory instrumental methods, including experiments in spectrophotometry, electrochemistry, and chromatography. Course Lab fee of $240 applies.

CHEM 3020 Environmental Chemistry 3:3:0 Fall
* Prerequisite(s): CHEM 1225 and University Advanced Standing

Studies the chemistry of soil, ground water, hazardous waste, and the atmosphere. Explores current environmental concerns and issues.

CHEM 3025 Environmental Chemistry Laboratory 1:0:3 On Sufficient Demand
* Prerequisite(s): CHEM 1225 and University Advanced Standing

Laboratory course which supports CHEM 3020, Environmental Chemistry. Introduces laboratory, sampling, and data analyses techniques used in environmental laboratories. Covers air sampling, and soil and water analysis using a variety of instruments and techniques.

CHEM 3060 Physical Chemistry I 4:4:0 Fall
* Prerequisite(s): PHYS 2220, MATH 2210, and University Advanced Standing

Introduces laws of thermodynamics and chemical thermodynamics. Covers changes of state and equilibrium. Introduces quantum mechanics.

CHEM 3070 Physical Chemistry II 4:4:0 Spring
* Prerequisite(s): CHEM 3060 and University Advanced Standing

Continuation of CHEM 3060. Covers quantum mechanics, spectroscopy, kinetics, and statistical thermodynamics.

CHEM 3080 Physical Chemistry III Statistical Mechanics and Chemical Kinetics 3:3:0 Spring
* Prerequisite(s): CHEM 3070 and University Advanced Standing

Teaches the fundamentals of statistical mechanics and chemical kinetics, as well as the fundamentals of the specialized topics of the physical chemistry of chemical symmetry, computational chemistry, NMR spectroscopy, and electrochemistry.

CHEM 3090 Physical Chemistry Applications in Biology 3:3:0 Spring
* Prerequisite(s): MATH 1220, CHEM 2320, and University Advanced Standing

Presents application of thermodynamics, quantum mechanics, and spectroscopy to biology and biological problems. Cannot be used to replace either CHEM 3060 or CHEM 3070 in the chemistry major sequence.

CHEM 3100 Advanced Inorganic Chemistry 4:4:0 Spring
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): CHEM 3000

Reviews major trends across the periodic table. Surveys basic structure, bonding, and oxidation states of the elements. Introduces inorganic stereochemistry including coordination compounds.

CHEM 3115 Physical and Inorganic Chemistry Laboratory 1:0:4 Spring
* Prerequisite(s): CHEM 3000, CHEM 3060, and University Advanced Standing
* Corequisite(s): CHEM 3100, CHEM 3070

Covers both inorganic chemistry and physical chemistry topics. Inorganic chemistry experiments follow lecture topics in CHEM 3100 and physical chemistry experiments follow lecture topics in CHEM 3060 and CHEM 3070. Course Lab fee of $144 applies.

CHEM 3600 (Cross-listed with: BIOL 3600) Biological Chemistry 3:3:0 Fall, Spring, Summer
* Prerequisite(s): CHEM 2320 and University Advanced Standing

CHEM 3605 (Cross-listed with: BIOL 3605) Biochemistry Laboratory 1:0:4 Fall, Spring
* Prerequisite(s): University Advanced Standing
* Corequisite(s): CHEM 3600
Introduces laboratory techniques in biochemistry. Studies methods and theory behind purification of proteins and nucleic acids including chromatography and electrophoresis. Uses methods in assessing enzyme activity and kinetics and protein structure analysis. Includes analysis and manipulation of DNA and RNA. Course Lab fee of $151 applies.

CHEM 3620 Biological Chemistry II 3:3:0 Spring
* Prerequisite(s): (CHEM 3600 or BIOL 3600) and University Advanced Standing
Continuation of CHEM 3600. Teaches in-depth the biochemistry of molecular and cell biology processes. Explores the topics of molecular information flow and signaling. Examines current understanding in biochemical methods and ideas beyond those discussed in Biochem I.

CHEM 3700 Forensic Analytical Chemistry 3:3:0 On Sufficient Demand
* Prerequisite(s): CHEM 3000, CHEM 2320, and University Advanced Standing
* Corequisite(s): CHEM 4000, CHEM 4005
For students in forensic chemistry emphasis and for chemistry majors interested in forensic science. Studies the challenges, methods, instrumentation, and analyses of forensic science from a fundamental, chemical perspective.

CHEM 3800 (Cross-listed with: ENVT 3800, PHYS 3800) Energy on Earth 3:3:0 Fall
* Prerequisite(s): (PHYS 1010 or PHSC 1000 or CHEM 1010 or GEO 1010 or GEO 2040 or METO 1010) and MATH 1050 and University Advanced Standing
Covers the science of energy production and consumption. Quantitatively analyzes various methods of energy production, distribution, and end use in all sectors of our society, including transportation, residential living, and industry. Examines the impacts of our energy consumption on the environment and prospects for alternative energy sources. Intended for science majors interested in energy use in society or in an energy-related career, and for students in other majors who feel that a technical understanding of energy use will help them to understand and mitigate its impact in our society.

CHEM 4000 Instrumental Analysis 2:2:0 Spring
* Prerequisite(s): CHEM 3000, CHEM 3070, and University Advanced Standing
* Corequisite(s): CHEM 3115
Covers modern instrumental methods and basic principles of instrumentation. Includes spectroscopic and chromatographic analysis.

CHEM 4005 Instrumental Analysis Laboratory 2:0:6 Spring
* Prerequisite(s): CHEM 3000, CHEM 2325, and University Advanced Standing
* Corequisite(s): CHEM 4000
Experiments in selected areas of instrumental methods of analysis. Covers both quantitative and qualitative methods of analysis. Includes introductory laboratory exercises and laboratories using advanced sample preparation and instrumental analysis techniques. Involves the independent creation and implementation of an advanced laboratory exercise. Course Lab fee of $247 applies.

CHEM 4030 Radiochemistry 3:3:0 On Sufficient Demand
* Prerequisite(s): CHEM 1215, MATH 1220, and University Advanced Standing
For students in chemistry, earth sciences, biology, and physics. Introduces nuclear and radiochemistry, stressing the fundamentals of nuclear structure, systematics of nuclear decay, the detection and measurement of radiation, radiation protection, and the role of nuclear chemistry in medical, environmental and scientific applications. Discusses nuclear fuel cycles and nuclear waste problems.

CHEM 4200 (Cross-listed with: PHYS 4200, BIOL 4200, GEO 4200) Teaching Methods in Science 3:3:0 Fall, Spring
* Prerequisite(s): Acceptance into secondary education program, senior-level standing, instructor approval, and University Advanced Standing
Examines objectives, instructional methods and curriculum for teaching science in the secondary school. Includes developing, adapting, evaluating, and using strategies and materials for teaching biological and physical sciences. Explores special needs of the learners and characteristics specific to the science discipline.

CHEM 4800 Pharmacology 3:3:0 Fall, Spring
* Prerequisite(s): (CHEM 3600 or BIOL 3600) and University Advanced Standing
Explores the science behind pharmaceutical therapeutics. Examines general considerations such as pharmacokinetics, drug metabolism, and toxicology. Surveys focused topics including drugs and drug targets for a wide variety of diseases.

CHEM 482R Chemistry Internship 1 to 4:0:5 to 20 Fall, Spring, Summer
* Prerequisite(s): CHEM 2320, a minimum GPA of 3.0, Departmental approval of the internship proposal, and University Advanced Standing
Provides supervised, practical, and research experience for students preparing for careers in chemistry. May be repeated for a maximum of 12 credit hours as per school standards. May be graded credit/no credit.

CHEM 489R Undergraduate Research in Chemistry 1 to 3:0:3 to 9 Fall, Spring, Summer
* Prerequisite(s): Departmental approval and University Advanced Standing
Conducts research on a project determined by the student jointly with a chemistry faculty and approved by the Chemistry Department Chair. Experimental technique, data collection and analysis, and preparation of research for presentation to an audience of peers will be emphasized. May be repeated for a maximum of 9 credits toward graduation.

CHEM 491R Advanced Topics in Inorganic Chemistry 3:3:0 On Sufficient Demand
* Prerequisite(s): CHEM 1220, instructor's permission, and University Advanced Standing; CHEM 3100 or CHEM 3600 or BIOL 3600 recommended
Examines advanced and current topics of inorganic chemistry including bioinorganic chemistry, symmetry and molecular orbital theory, and the descriptive chemistry of main-group compounds. Varies from semester to semester. Offered on demand. May be repeated for a maximum of 9 credits.

CHEM 4920 Chemistry Capstone I 1:1:0 Fall, Spring
* Prerequisite(s): CHEM 2320 with a C- or higher and University Advanced Standing; ENGL 2010 or ENGL 2020 highly recommended
Begins a three semester capstone series that engages students in current chemistry topics, enables students to become familiar with chemistry literature resources, teaches chemistry research and design, and prepares students for further education and employment in chemistry-related fields. Requires students to present their findings in the form of a written senior thesis. Focuses on current topics in chemistry and on chemistry literature. Includes significant writing opportunities. Requires students to choose a capstone project with the help of a faculty mentor and to work with that mentor for the remainder of the capstone project.

CHEM 4930 Chemistry Capstone II 1:0:4 Fall, Spring
* Prerequisite(s): CHEM 4920 with a C- or higher and University Advanced Standing
* Corequisite(s): 3 credits of CHEM 489R strongly encouraged
Continues a three semester capstone series that engages students in current chemistry topics, enables students to become familiar with chemistry literature resources, teaches chemistry research and design, and prepares students for further education and employment in chemistry-related fields. Requires students to present their findings in the form of a written senior thesis. Focuses on current topics in chemistry and on chemistry literature. Chemistry capstone II specifically requires students to work with a faculty mentor to complete laboratory primary research that will be used to write up a senior thesis that will be completed in CHEM 4940.
CHEM 4940
Chemistry Capstone III
1:0:4 Fall, Spring
* Prerequisite(s): CHEM 4930 with a C- or higher and University Advanced Standing

Completes a three semester capstone series that engages students in current chemistry topics, enables students to become familiar with chemistry literature resources, teaches chemistry research and design, and prepares students for further education and employment in chemistry-related fields. Requires students to present their findings in the form of a written senior thesis. Focuses on current topics in chemistry and on chemistry literature. Requires students to work with a faculty mentor to complete their undergraduate research project and write a senior thesis.

CHEM 495R
Advanced Topics in Organic Chemistry
3:3:0 On Sufficient Demand
* Prerequisite(s): CHEM 2310, CHEM 2320, Instructor approval, and University Advanced Standing

For students majoring in Chemistry. Varies from semester to semester. May be repeated for a maximum of 9 credits. Topics include organic synthesis, reaction mechanisms, and identification of organic compounds.

CHEM 496R
Special Topics in Chemistry
1 to 4:1 to 4:0 to 9
* Prerequisite(s): CHEM 2320, Junior or Senior standing, instructor approval, and University Advanced Standing

Explores special topics in chemistry. Topics vary depending on student demand and current topics of significance in chemistry. May be repeated for a maximum of 8 credits toward graduation.

CHEM 499R
Independent Study and Research
1 to 4:0:3 to 12 Fall, Spring, Summer
* Prerequisite(s): Instructor approval, and University Advanced Standing

Uses independent study on selected topics and conducting experiments in the same topic. Provides guidance by a faculty member. May be taken for a maximum of 4 credits.

CHIN 1010
Beginning Chinese I
4:4:1 Fall
Studies Mandarin. Emphasizes oral proficiency in pronunciation and basic conversation as well as traditional grammar concepts. Focuses on receptive language learning, then verbally-expressive language learning. Lab access fee of $10 applies.

CHIN 1020
Beginning Chinese II
4:4:1 Spring
* Prerequisite(s): Students need equivalent knowledge of CHIN 1010
Continues the same mode of learning as CHIN 1010 with renewed emphasis on conversational skills. Introduces characters and elementary calligraphy, reading and writing. Lab access fee of $10 applies.

CHIN 115R
Chinese Conversation I
1:1:0
Offers novice Chinese speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

CHIN 2000
Chinese Character Writing
2:2:0 On Sufficient Demand
* Prerequisite(s): Basic Chinese speaking ability
Prepares students who have oral fluency in Chinese to read and write Chinese (Kanji) Characters. Develops skills in sentence and paragraph writing according to Chinese language norms and format.

CHIN 2010
Intermediate Chinese I
4:4:1 Fall
* Prerequisite(s): Students need equivalent knowledge of CHIN 1020
Emphasizes increased communicative ability as well as grammatical accuracy; adds more complex, literary grammatical structures; focuses on reading of basic 600 characters and writing of basic 300 characters. Uses digit weave (mixture of English and Chinese) and character-romanization mix to ease learning of characters. Lab access fee of $10 applies.

CHIN 202G
Intermediate Chinese II
4:4:0 Spring
* Prerequisite(s): Students need equivalent knowledge of CHIN 2010
Emphasizes increased communicative ability as well as grammatical accuracy; adds more complex, literary grammatical structures, as well as discussion of contemporary cultural and political themes. Includes reading of basic 1000 characters and writing of basic 450-600 characters. Uses digit weave (mixture of English and Chinese) and character-romanization mix to ease learning of characters. Lab access fee of $10 applies.

CHIN 215R
Chinese Conversation II
1:1:0
* Prerequisite(s): Students should have equivalent knowledge of CHIN 1020
Offers lower division / novice Chinese speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

CHIN 3050
Advanced Chinese
3:3:1 Fall
* Prerequisite(s): CHIN 202G, one year residency in a Chinese-speaking country, or instructor approval
Designed for non-native Mandarin speakers who, as a result of foreign residency or similar exposure to the language, have attained a fairly good mastery of basic Mandarin Chinese. Sharpens students' speech making, reading and writing skills through advanced Chinese readings on culture, civilization and society, with an emphasis on vocabulary, grammar and syntax. Enhances students' cultural knowledge and awareness through a variety of carefully designed practices and activities. Taught predominantly in Chinese.

CHIN 3200
Business Chinese I
3:3:0
* Prerequisite(s): CHIN 3050 and University Advanced Standing
Prepares students to take the Business Chinese Test (BCT), a state-level standardized test designed to assess the Chinese proficiency of non-native speakers engaged in business activities. Explores how students can effectively and respectfully pursue business activities with Chinese companies within the framework of Chinese culture, sponsored by Office of Chinese Language Council International. Taught predominantly in Chinese.
CHIN 3510
Chinese Culture and Civilization
3:3:0
* Prerequisite(s): CHIN 3050 or equivalent and University Advanced Standing
Explores chronologically the evolution and development of Chinese culture and civilization, and a multitude of aspects that construct Chinese national identity and civilization. Examines modern and contemporary issues, cultural, ethnic, historic, social and economic development of China, as well as historical prosperity and decline, and independence from and interdependence with other nations. Conducted entirely in Mandarin Chinese, including presentations and class instructions.

CHIN 4050
Chinese Language and Culture
3:3:0
* Prerequisite(s): CHIN 3050, over one year residency in a Mandarin Chinese-speaking country, or instructor approval, and University Advanced Standing
Designed for non-native Mandarin speakers who, as a result of foreign residency or similar exposure to the language, have attained a fairly good mastery of basic Mandarin Chinese. Sharpens students' speech making, reading and writing skills through advanced Chinese readings on culture, civilization and society, with an emphasis on vocabulary, grammar and syntax. Enhances students' cultural knowledge and awareness through a variety of carefully designed practices and activities. Taught predominantly in Chinese.

CHIN 4100
Translation and Interpretation
3:3:0
* Prerequisite(s): CHIN 4050 and University Advanced Standing
Introduces translation as a discipline. Discusses basic theory, principles and tools of translation. Emphasizes the tools of translation: dictionaries, glossaries, grammars and computerized resources. Extensive practice of translation and interpretation from English to Chinese and from Chinese to English.

CHIN 4200
Business Chinese II
3:3:0
* Prerequisite(s): CHIN 3200 and University Advanced Standing
Builds on the content of CHIN 3200. Teaches students business Chinese with more complicated grammatical and rhetorical structures. Studies business Chinese terms and expressions, subtle business Chinese culture and customs practiced in Chinese business society, and the more advanced business Chinese language and culture in Chinese societal settings. Prepares students to effectively and respectfully pursue business activities with Chinese companies within the framework of Chinese culture through a better understanding of the language, culture and society. Strengthens and prepares students to take the Business Chinese Test (BCT), a state-level standardized test designed to assess the Chinese proficiency of non-native speakers engaged in business activities. Taught predominately in Chinese.

CHIN 4500
Advanced Writing in Chinese
3:2:3
* Prerequisite(s): CHIN 3050 or CHIN 4050 and University Advanced Standing
Designed to improve students' accuracy, clarity and use of appropriate styles, forms and vocabularies when writing in Chinese. Informs students of the significant roles played by styles, content and intentionality of discourse in their writing, and focuses on improving their skills in addressing the requirements of those various roles in different contexts.

CHIN 490R
Special Topics in Chinese Language and Literacy
3:3:0
* Prerequisite(s): CHIN 3050, University Advanced Standing.
Prepares selected topics in Chinese language and literacy (grammar, literacy, and culture). Covers topics such as "Practical Modern Chinese Grammar" or "Modern Chinese Literacy and Sentence Structure". Studies the main points in Modern Chinese language, literacy and their relations to Chinese society, history and culture. Projects and evaluation will vary according to the topic. May be repeated for a maximum of 9 credits toward graduation.

CHST 200G
Introduction to Chinese Studies
3:3:0 Fall
* Prerequisite(s): ENGL 1010
Taught in English. Introduces Chinese Language and Culture to interested students and gives them an overview about the minor study program. Includes an introduction into the characteristics of Chinese script by memorizing a few everyday expressions in Chinese. Introduces Chinese history, economy, society, politics, culture and popular culture, and ethics including philosophy, religions, beliefs, film, literature, contemporary discourses.

CHST 362G
Traditional Chinese History
3:3:0 Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Introduces the student to the broad outlines of the cultural history of traditional China from some of the earliest historical records (about 1200 BCE) through the late imperial period (about 1800 CE). Taught in English.

CHST 363G
Modern Chinese History
3:3:0 Fall
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Introduces the student to the broad outlines of Chinese Civilization from the last Imperial Dynasty until the present day. Taught in English.

CHST 373G
Classical Chinese Literature
3:3:0 Fall
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Studies classical Chinese literature within the historical, cultural, thematic, and aesthetic context. Taught in English.

CHST 375G
Modern Chinese Literature
3:3:0 Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Studies modern Chinese literature within the historical, cultural, thematic, and aesthetic context. Taught in English.

CHST 416G
Chinese Culture and Film
3:3:0 Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Examines a selection of films from internationally acclaimed Chinese film directors.

CHST 481R
Internship
1 to 8:0:5 to 40
* Prerequisite(s): Departmental Approval and University Advanced Standing
For upper-division students working toward a Minor in Chinese Studies or Chinese Commerce. On approval also counts for a Bachelor of Science Degree in Business Management. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. No more than three credit hours of internship work experience will apply toward graduation in Chinese Studies or in any Business Management Specialization; may be repeated for a maximum of 16 credits. May be graded credit/no credit.

CHST 490R
Special Topics in Chinese Studies or Commerce
3:3:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
Taught in English. Covers topics of social change, history, political science, culture including literature, art, cinema, economy including commerce, and business culture. Offers insights into Chinese life in the past and today. Defines terminology involved, studies evolution and/or specific texts or contexts, and considers theoretical discourse. Provides additional materials in Chinese for students who want more language practice, e.g., in the Chinese Language minor. May be repeated for a maximum of 9 credits toward graduation.
Cinema Studies (CINE)

CINE 2150 (Cross-listed with: ENGL 2150) 3:3:0 Spring
Critical Introduction to Cinema Studies
* Prerequisite(s): ENGL 210 or ENGL 2020
Studies film as an aesthetic and cultural medium. Teaches the fundamentals of film, including narrative form, mise en scene, cinematography, editing, sound, and non-narrative forms. Teaches film analysis, including ideological approaches, and considers film as a cultural institution. Includes discussion, lecture, film screenings, papers, and tests.

CINE 217G (Cross-listed with: ENGL 217G, COMM 217G) 3:2:2 Fall
Race Class and Gender in US Cinema
* Prerequisite(s): ENGL 1010
Raises cultural awareness through aesthetic, critical, and interdisciplinary examination of the evolution of the representation of race, class, and gender in American cinema. Focuses on both Hollywood and independent minority filmmakers. Some films screened may carry an "R" rating.

CINE 312R (Cross-listed with: LANG 312R) 3:2:3 Fall
National Cinema History
Prerequisite(s): ENGL 2150 or CINE 2150
Covers history of documentary film, studies current modes and models of documentary film, including attending Sundance film festival documentaries. May be repeated for a maximum of 6 credits toward graduation. Some films screened may carry an "R" rating, or may not be rated but would carry an "R" rating. Course fee of $50 for support applies.

CINE 3150 (Cross-listed with: ENGL 3150, COMM 3150) 3:3:0 Fall
Film Theory
Prerequisite(s): ENGL 2150 or University Advanced Standing
Covers a single national cinema tradition from the early days of film to the present. Explores representative films from a nation's cinematic chronology, considering major themes, movements, controversies, and artists. Considers social and political contexts as related to the national film output. May be repeated for a maximum of 6 credits toward graduation.

CINE 418R 3:3:0 Spring
Sundance Documentary Film
Prerequisite(s): University Advanced Standing
Covers history of documentary film, studies current modes and models of documentary film, includes attending Sundance film festival documentaries. May be repeated for a maximum of 6 credits toward graduation. Some films screened may carry an "R" rating, or may not be rated but would carry an "R" rating.

Criminal Justice (CJ)

CJ 1010 3:3:0 Fall, Spring, Summer
Introduction to Criminal Justice
* Prerequisite(s): CJ 1010 and ENGL 1010
Presents the processes, institution, and administration of criminal justice in the United States. Examines the crime problem and criminal law. Discusses criminal law, law enforcement, criminal prosecution, criminal defense, bail, the jury system, and sentencing. Explores the correctional system: namely, probation, prisons, inmates' rights, and parole. May be delivered online.

CJ 1300 3:3:0 Fall, Spring
Introduction to Corrections Process
Prerequisite(s): CJ 1010 and ENGL 1010
Introduces the corrections system. Includes origin and evolution, philosophies of corrections, perspectives on sentencing, and alternatives to incarceration. Includes community corrections, probation and parole, offender rights and legal issues; adult, juvenile, and special needs offenders; corrections specialists, staff and administration as a profession and special challenges for the future. May be delivered online.

CJ 1330 3:3:0 Fall, Spring, Summer
Criminal Law
Prerequisite(s): CJ 1010
Provides an overview of criminal law. Covers history and terminology of the criminal justice system, the elements of specific offenses, and the role of the criminal justice profession in the fact-gathering process. May be delivered online.

CJ 1340 3:3:0 Fall, Spring
Criminal Investigations
Prerequisite(s): CJ 1010 and ENGL 1010
Introduces criminal investigation including necessary functions of interviewing witnesses and suspects, preservation and collection of evidence, and crime scene processing including post-crime scene processing of evidence. May be delivered online.

CJ 1350 3:3:0 Fall, Spring
Introduction to Forensic Science
Prerequisite(s): CJ 1010
Studies the importance of proper identification, collection and preservation of physical evidence. Teaches laboratory techniques and services available to the law enforcement professional as they relate to physical evidence. May be delivered online.

CJ 1390 3:3:0 Fall, Summer
Police Field Operations
Prerequisite(s): Permission Required
Explores patrol and basic field procedures, observation and perception along with police communications. Teaches field note-taking, crime scene recording, and the art of interviewing. Emphasizes patrol assignments, crimes in progress, preliminary investigations, traffic direction and enforcement, arrest, search, custody, stress survival and the use of force, community policing, and problem solving.

CJ 1800 7:7:0 Fall, Summer
POST Module I
Prerequisite(s): CJ 1800, Permission Required
May count as elective credit toward an AS or BS in criminal justice for completion of Module I of the Peace Officer Standards and Training (POST) certification. Includes career orientation, criminal and traffic laws, and the proper means of enforcing them. Ethics and professionalism as well as police-community relations are emphasized.

CJ 1810 11:11:0 Spring
POST Module II
Prerequisite(s): CJ 1800, Permission Required
May count as elective credit toward an AS or BS in criminal justice for completion of Module II of the Peace Officer Standards and Training (POST) certification. Completes all law enforcement training required by the state of Utah to become certifiable in this career field. Emphasizes firearms, emergency vehicle operation, and arrest control techniques. Students conduct investigations, prepare reports, and experience testimony in a moot court.

CJ 2110 3:3:0 Fall, Spring
Security Management and Loss Prevention
Prerequisite(s): CJ 1010
Examines external and internal plant security measures; confidential personnel investigations and interview procedures. Studies principle and major concepts of prevention, protection, loss control and crime prevention in the commercial sector.

CJ 2330 3:3:0 Fall, Spring
Juvenile Justice
Prerequisite(s): CJ 1010
Provides students with an overview of the juvenile justice system from its origin through present-day trends and development. Examines the origin and development of the juvenile court as well as its changing social and political philosophy. Discusses the role and relationship of municipal law enforcement toward the juvenile offender. Also examines closed juvenile institutions, juvenile probation and parole as well as alternative placement such as group homes. May be delivered online.
CJ 2350
Laws of Evidence
3:3:0 Fall, Spring
* Prerequisite(s): CJ 1330

Covers principles and practice of the law of evidence. Teaches legal issues including admissibility of evidence, judicial notice, burdens of proof, hearsay, documentary evidence, evidentially privileges and witnesses. May be delivered online.

CJ 281R
Internship
1 to 8:0:5 to 40 Fall, Spring, Summer
* Prerequisite(s): Department Approval

Provides actual, on-the-job work experience on a paid basis in a criminal justice profession or other approved related situation. Emphasizes successful work experience, with emphasis on identifying and solving problems. Completers should be qualified to work at entry-level jobs in the criminal justice profession. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

CJ 290R (Cross-listed with: LEGL 290R)
Law Society
1:1:0 Fall, Spring

Elective Credit for students interested in law or law-related professions. Provides a program of activity relating to current legal issues, encouraging social awareness and developing law and civic consciousness. Students arrange for guest speakers from the legal and criminal justice professions to present information concerning their professions. Teaches leadership skills by serving on committees. Pass/Fail grade issued. Criminal Justice majors and Paralegal majors may repeat this course for a total of three elective credits towards graduation. Each student must participate in the service project and fundraiser for a passing grade.

CJ 2920
Short-Course Workshop
1 to 3:1 to 3:3 to 9 On Sufficient Demand

The specific title with the credit authorized for the particular offering will appear in the semester schedule and on the student transcript.

CJ 3020
Criminal Justice Management
3:3:0 Spring, Summer
* Prerequisite(s): ENGL 2010 or ENGL 2020 (recommended), CJ 1010, and University Advanced Standing

Presents value systems inherent in modern criminal justice management including work environment, motivation, leadership, morale, discipline, evaluation, planning, and functioning of line and staff. Studies issues such as control, authority, power, influence, and leadership as they relate to a criminal justice agency. Examines concept of change and individual's potential for leadership. May be delivered online.

CJ 3040
Community Policing
3:3:0 Fall
* Prerequisite(s): ENGL 2010 or ENGL 2020 (recommended), CJ 1010, and University Advanced Standing

Studies community policing and effective crime and accident prevention. Emphasizes police citizen teamwork and creative solutions to problems within the community. Presents methodologies of problem solving through ongoing analysis, response, and assessment.

CJ 3060
Corrections in the Community
3:3:0 Fall
* Prerequisite(s): ENGL 2020, CJ 1300, and University Advanced Standing

Studies the Criminal Justice Community Corrections component. Presents historical origin, development, and current practices in probation, parole, the halfway house, work and educational release, as well as furlough programs. Requires the design of an ideal corrections facility and a pre-sentence investigation report and recommendation.

CJ 3100
Criminal Profiling
3:3:0 Fall
* Prerequisite(s): ENGL 2020, CJ 1010, and University Advanced Standing

Introduces process of reviewing and assessing the behavioral facts of a violent criminal act from a law enforcement and/or investigative perspective.

CJ 3140
Corrections Law
3:3:0 Spring
* Prerequisite(s): ENGL 2020, CJ 1300, and University Advanced Standing

Exposes students to the law as it pertains to the corrections field. Examines civil liability and pertinent constitutional amendments as they relate to corrections covering the areas of probation, incarceration and parole.

CJ 3270
Criminology
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 2020, CJ 1330, and University Advanced Standing

Studies the definition of crime and the difficulties inherent in crime prevention and control. Develops methods to overcome stereotypes, biases and preconceptions.

CJ 4300
Drugs and Crime
3:3:0 Fall
* Prerequisite(s): CJ 1010, ENGL 2020, and University Advanced Standing

Covers principles and practice of the law of evidence. Teaches legal issues including admissibility of evidence, judicial notice, burdens of proof, hearsay, documentary evidence, evidentially privileges and witnesses. May be delivered online.
Course Descriptions

CJ 3600 (Cross-listed with: ESMG 3600)  
Psychology of Emergency Services  
3:3:0  
Fall, Spring  
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing  
* Prerequisite(s) or Corequisite(s): ESMG 310G

Examines the general psychological aspects of police, fire, and emergency medical services responders including dimensions of personality, family, organizational, cultural and diversity issues. Examines models of emergency and crisis decision making. Analyzes stress, anxiety, and trauma theories and clinical issues and examines current interventions being used for related disorders and building resilience. May be delivered online.

CJ 4060  
Special Problems in Criminal Justice  
3:3:0  
On Sufficient Demand  
* Prerequisite(s): Acceptance into the Criminal Justice Bachelor Degree Program, Senior Standing, and University Advanced Standing

Presents causes and prevention of white collar and organized crime. Studies gangs and the way they establish their bases as well as other current interest topics selected by the instructor.

CJ 4160  
Constitutional Criminal Rights  
3:3:0  
Fall, Spring  
* Prerequisite(s): CJ 2350, ENGL 2020, and University Advanced Standing

Studies decisions in leading U.S. Supreme Court criminal cases. Presents an overview of criminal procedure relating to constitutional amendment laws with a criminal justice emphasis. Discusses leading cases concerning constitutional rights and responsibilities.

CJ 4200  
Ethical Issues in Criminal Justice  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): CJ 2350, ENGL 2020, and University Advanced Standing

Presents major ethical problems within the criminal justice system. Studies differences between moral decay and the ideal justice system. Uses an issue-based approach to solve individual, group and departmental ethical dilemmas.

CJ 4250  
Criminal Justice Career Strategies  
2:2:0  
Fall, Spring  
* Prerequisite(s): University Advanced Standing

Emphasizes the development of effective techniques for successfully locating, applying for and securing employment as well as advancing in a Criminal Justice related career path. Includes industry and job research, demonstration, role play, and application exercises. Should be taken during second semester junior year. Provides preparation for coop/internship experience.

CJ 445G (Cross-listed with: ESMG 445G)  
Human Factors in Emergency Management  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): University Advanced Standing  
* Prerequisite(s) or Corequisite(s): ENGL 2010 or ENGL 2020

Introduces students to an emergency response approach to understanding hazards and disasters grounded in social vulnerability analysis. Examines historical, geographical, social, and cultural factors and conditions that put people differentially at risk before, during, and after disasters. Utilizes a multi-disciplinary approach. Focuses on global, national, regional, and local patterns of development. Explores how vulnerable social groups are affected by and cope with hazardous conditions and events, and strategies for community-based mitigation engaging these most at risk.

CJ 4700  
Comparative Criminal Justice Systems  
3:3:0  
* Prerequisite(s): CJ 2350 and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies local, county, state, and federal law enforcement systems, their operation and areas of jurisdiction. Compares foreign and United States criminal justice systems. Presents opportunities available in criminal justice areas.

CJ 470G  
Comparative Criminal Justice Systems  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): CJ 2350, ENGL 2020, and University Advanced Standing

Examines the influences of the history, religion, ethnicity, traditions on the political and social cultures between and among six model nations of obvious historical interest to the USA. Examines the respective similar influences and distinctions between other countries and compares them with the political practices and legal systems of the USA as viewed from the international and multicultural vantage point.

CJ 481R  
Internship  
1 to 8:0:5 to 40  
Fall, Spring, Summer  
* Prerequisite(s): University Advanced Standing

Provides actual, on-the-job work experience on a paying or non-paying (volunteer) basis in a criminal justice profession or other approved related situation. Emphasizes successful work experience, with emphasis on identifying and solving problems. Completers should be qualified to work in the Criminal Justice profession. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

CJ 487R  
Criminal Justice Field Experience  
1 to 6:1 to 5:3 to 15  
On Sufficient Demand  
* Prerequisite(s): Junior or Senior status and University Advanced Standing

Provides students access to law enforcement agencies, prisons, detention centers, courts and institutions dealing with criminals and delinquents. Includes 2-3 weeks of intense classroom instruction, interviews, and lectures by practitioners in the field and several on-site visits of varying duration. Course may be repeated five times for a total of 6 hours of credit.

CJ 4880  
Qualitative Research Methods in Criminal Justice  
3:3:0  
Fall, Spring  
* Prerequisite(s): ENGL 2010 and University Advanced Standing

Presents the types of research in which criminal justice educators and practitioners engage. Emphasizes the application of basic research practices to law enforcement and corrections problems. Includes the use of American Psychological Association (APA) style.

CJ 491R  
Directed Reading and Special Projects  
1 to 3:0 to 3:0 to 9  
On Sufficient Demand  
* Prerequisite(s): Junior or Senior status and University Advanced Standing

Offers independent study as directed in reading, individual projects, etc., at the discretion and approval of the department chair. May be repeated for a maximum of 9 credits.

CJ 4990  
Criminal Justice Capstone Seminar  
3:3:0  
Fall, Spring  
* Prerequisite(s): CJ 4880, Senior Standing in Criminal Justice Bachelor's Degree Program, and University Advanced Standing

Explores selected issues and dilemmas surrounding the criminal justice field. Develops oral and written communication skills. Includes guest speakers, research, and resume writing.

Classical Studies (CLST)

CLST 290R  
Themes in Classical Civilizations  
3:3:0  
On Sufficient Demand  
* Prerequisite(s): ENGL 1010

Explores topics in Classical thought, literature, art, history and philosophy at an introductory level. Emphasizes understanding literature, history and archeological topics through translated primary and secondary sources. Focuses on the basic interpretive skills necessary to relate historical, cultural, and sociological data to classical societies. May be repeated for 6 credits toward graduation.

CLST 490R  
Special Topics in Classical Civilizations  
3:3:0  
On Sufficient Demand  
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Analyzes literary, historical, archeological, religious and cultural texts and art work from Classical societies. Emphasizes understanding of the social, cultural and political forces which operate on a culture’s writers, artists and major contributors. May be repeated with different topics for 6 credits toward graduation.
**Construction Management (CMGT)**

**CMGT 1010**  
Introduction to Construction Management  
*Prerequisite(s): MAT 0950 (or higher) or University Advanced Standing*

FALL, SPRING  
Introduces construction documents including 2D and 3D building information models (BIM). Utilizes guest lecturers, and field trips in addition to traditional classroom activities.

**CMGT 1020**  
Construction Materials and Methods I  
*Prerequisite(s): MAT 0950 (or higher) or University Advanced Standing*

FALL, SPRING  
Provides a basic knowledge of the materials and methods used in heavy civil, commercial, and residential construction projects. Includes lectures, site visits and laboratory work. Lab access fee of $35 for computers applies.

**CMGT 1150**  
Construction Safety  
*Prerequisite(s): Requires adviser or department approval.*

FALL, SPRING  
Introduces OSHA safety practices and its role in the construction industry. Reviews related safety theories, procedures and practices used in the construction industry. Software fee of $5 applies. Lab access fee of $35 for computers applies.

**CMGT 1190**  
Concrete and Framing Lab  
*Prerequisite(s): Requires adviser or department approval.*

FALL  
Offers learning experience in concrete and framing applied construction methods. Course Lab Supply fee of $10 for materials applies.

**CMGT 1220**  
Finishing Lab  
*Prerequisite(s): Requires adviser or department approval.*

FALL  
Offers lab experience in finishing methods and techniques. Course Lab Supply fee of $10 for materials applies.

**CMGT 2010**  
Construction Materials and Methods II  
*Prerequisite(s): MAT 0950 (or higher) or University Advanced Standing*

FALL, SPRING  
Provides additional basic knowledge of the materials and methods used in heavy civil, commercial, and residential construction projects. Includes lectures, site visits and laboratory work. Software fee of $5 applies. Lab access fee of $35 for computers applies.

**CMGT 2025**  
Heavy Civil Plans and Specifications  
*Prerequisite(s): CMGT 1020*

FALL, SPRING  
Designed for students interested in heavy civil construction and design. Studies plans, standards and specifications for infrastructure construction. Emphasizes roadway systems, highway and bridge construction utilized in the heavy civil construction industry. Utilizes current project plans. May include site visits and guest lecturers as appropriate.

**CMGT 281R**  
Internship  
*Prerequisite(s): Department approval*

FALL, SPRING  
For Construction Management majors. Provides on-the-job work experience in the student's major. Work experience is approved and coordinated with the Internship Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

**CMGT 299R**  
Skills USA  
*Prerequisite(s): Requires adviser or department approval.*

FALL, SPRING  
Supports and facilitates the goals and objectives of Skills USA pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests. May be repeated for a maximum of 2 credits toward graduation.

**CMGT 3000**  
Principles of Construction Scheduling  
*Prerequisite(s): CMGT 1010, CMGT 2010, IM 1010 or University Advanced Standing*

FALL, SPRING  
Provides fundamental skills required to plan and schedule civil and commercial construction projects. Familiarizes students with computer scheduling software packages. Covers the efficient assignment of available resources to complete projects on time and within budget. Software fee of $5 applies. Lab access fee of $35 for computers applies.

**CMGT 3010**  
Construction Materials Testing  
*Prerequisite(s): CMGT 1020 and (MAT 1010 or higher or EGDT 1600) and University Advanced Standing*

FALL, SPRING  
Investigates the general physical properties of construction materials and their common quality control/assurance tests conducted in the construction industry. Analyzes results of these tests and how they affect construction design. Emphasis is placed on the performance of field and lab testing procedures used in heavy civil construction. Course Lab Supplies fee of $17 for materials applies.

**CMGT 3020**  
Building Envelopes and Mechanical Systems  
*Prerequisite(s): CMGT 1010, IM 1010 or computer proficiency exam, and University Advanced Standing*

FALL, SPRING  
Covers mechanical, electrical and plumbing (MEP) principles. Provides problem solving experience in the analysis and design of building envelopes and MEP systems used in construction applications. Software fee of $5 applies. Course fee of $10 for materials, transportation applies. Lab access fee of $35 for computers applies.

**CMGT 3030**  
Principles of Construction Estimating  
*Prerequisite(s): CMGT 2010 and University Advanced Standing*

FALL, SPRING  
Covers the preparation of detailed cost estimates based on contract models and documents. Includes the use of software for performing reliable quantity take-offs. Covers labor, material, and equipment pricing. Includes lectures and laboratory work. Software fee of $5 applies. Lab access fee of $35 for computers applies.

**CMGT 3040**  
Construction Job Site Management  
*Prerequisite(s): CMGT 1010, IM 1010 or computer proficiency exam, and University Advanced Standing*

FALL, SPRING  
Covers the role and duties of job site managers of heavy civil and commercial construction projects. Includes documentation, time and cost control, jobsite layout and control, labor relations, conflict resolution, OSHA safety practices. Emphasizes the design and implementation of project safety plans. Focuses on project quality, productivity, cost control and safety management. Lab access fee of $35 for computers applies.

**CMGT 3050**  
Construction Equipment, Planning and Logistics  
*Prerequisite(s): CMGT 3000, CMGT 3030, ACC 3000 (recommended) or (ACC 2010 and ACC 2020), and University Advanced Standing*

FALL  
Teaches construction equipment, productivity, logistics and associated costs. Emphasizes equipment used in heavy civil construction. Lab access fee of $35 for computers applies.

**CMGT 3060**  
Applied Statics and Strength of Materials  
*Prerequisite(s): (MATH 1060 or EGDT 1610) and University Advanced Standing*

FALL, SPRING  
Teaches basic principles of static, coplanar force systems, coplanar-nonconcurrent force systems, stresses and strains, properties of materials, Poisson’s ratio, shear and bending diagrams, and beam design. Explores materials used in construction projects.
Course Descriptions

CMGT 3080
Construction Financial Management
3:3:0
* Prerequisite(s): ACC 3000 (Recommended) or (ACC 2010 and ACC 2020), and University Advanced Standing
* Prerequisite(s) or Corequisite(s): CMGT 3030
Builds on basic principles of accounting and finance as utilized in the construction industry. Emphasizes labor burden, financial needs and decision tools, construction accounting systems, cash flow, profit and tax projections on construction projects. Lab access fee of $35 for computers applies.

CMGT 3160
Building Information Modeling
3:3:0
* Prerequisite(s): EGDT 1020, IM 2010 or equivalent, and University Advanced Standing
Introduces 3D architectural models for cost estimating, clash detection, collaboration between multiple disciplines and documenting and quantifying project data. Covers model design theory, parametric modeling methods, generation of residential and commercial construction plans and details sufficient for cost estimating, building components and systems, and manipulation of model information. Lab access fee of $35 for computers applies.

CMGT 399R
Student Professional Organization
0.5:0:5.0 Fall, Spring
* Prerequisite(s): University Advanced Standing
Provides students the opportunity to participate in a professional organization in the construction field. Utilizes guest speakers, attendance at professional meetings, and competitions. Should be taken once each year during BS program for a maximum of two (2) credits toward graduation.

CMGT 4010
Construction Contracts
3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020), CMGT 1010, Junior Standing, and University Advanced Standing
Prepares learners to be able to interpret and utilize appropriate construction documents such as contracts, waivers, change orders, employee documents and specifications, etc. Addresses the dispute process in the United States and the contractual relationship associated with construction project delivery methods.

CMGT 405G
Global Sustainability and the Built Environment
3:2:2 Fall, Spring
* Prerequisite(s): Minimum junior status and University Advanced Standing
For construction management majors and individuals interested in sustainable construction. Focuses on sustainability issues from a global perspective. Discusses global sustainability and focuses specifically on the LEED green building rating system. May include guest lectures, site visits, and group assignments. Lab access fee of $35 for computers applies.

CMGT 4500
Senior Capstone Project
3:1:4 Fall, Spring, Summer
* Prerequisite(s): Junior Standing, Department Approval, and University Advanced Standing
Designed for senior Construction Management and related majors. Involves execution of a construction project case simulation covering all aspects of construction management for either heavy civil, commercial or residential projects. Engages students with local representatives from the construction industry. Requires a written project report and oral presentations. Lab access fee of $35 for computers applies.

CMGT 459R
Current Topics in Construction
1 to 3:0 to 3:0 to 9 On Sufficient Demand
* Prerequisite(s): Junior Standing, Department Approval, and University Advanced Standing
Provides exposure to emerging technologies and topics of current interest in Construction. Varies each semester depending upon the state of technology. May apply a maximum of 6 hours toward graduation.

CMGT 481R
Internship
1 to 3:0:5 to 15 Fall, Spring, Summer
* Prerequisite(s): Approval of Construction Technologies Department Chair and University Advanced Standing
Provides opportunities to apply classroom theory while students work as employees in a job that relates to their careers. Students communicate regularly with a School of Technology and Computing coordinator. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. May apply 3 credits toward a Bachelor of Science Degree in Construction Management. May be graded credit/no credit.

CMGT 489R
Undergraduate Research in Construction
1 to 3:0:5 to 15 On Sufficient Demand
* Prerequisite(s): Department approval and University Advanced Standing
Provides the opportunity to conduct research under the mentorship of a faculty member. Practices the theoretical knowledge gained in prior major courses. Creates a significant intellectual or creative product that is characteristic of the Construction discipline and worthy of communication to a broader audience. May be repeated for a maximum of 3 credits toward graduation.

CMGT 497R
Independent Study
1 to 3:0:3 to 9 Fall, Spring, Summer
* Prerequisite(s): Approval of Construction Technologies Department Chair and University Advanced Standing
Offers independent study as directed in reading or individual projects at the discretion and approval of the department chair. May be repeated for a maximum of 6 credits toward graduation.

Constitutional Studies (CNST)

CNST 2600
Comparative Constitutionalism
3:3:0 Fall, Spring
* Prerequisite(s): POLS 1000 or POLS 1100
Compares and contrasts the political, social and economic aspects of the origins, drafting, and development of constitutions across the globe.

CNST 4730
Framing of the US Constitution
3:3:0 Fall
* Prerequisite(s): POLS 4720 and University Advanced Standing

CNST 4795
Civil Rights and Civil Liberties
3:3:0 Spring
* Prerequisite(s): POLS 4730 and University Advanced Standing
Examines, with a critical lens, the political and constitutional aspects of the origins, drafting, and development of The Bill of Rights, the Modern Civil Rights Movements, and the Ninth, Tenth, Thirteenth, Fourteenth, Fifteenth, and Nineteenth Amendments to the Constitution.

CNST 4790
Issues and Topics in Constitutional Studies
3:3:0 Fall, Spring
* Prerequisite(s): (POLS 1000 or POLS 1100) and University Advanced Standing
Surveys a specific topic in constitutional studies. Topic varies each semester. With the approval of the department chair or coordinator, students may repeat the course for a maximum of 9 credits toward graduation.

CNST 491R
Independent Study
1 to 4:1 to 4:0
* Prerequisite(s): (POLS 1000 or POLS 1100), Instructor Approval, and University Advanced Standing
Provides independent study for students unable to secure a desired course subject matter within regular curriculum offerings. Requires student and instructor design and complete readings and other projects at the upper division level, with the approval of the department chair or coordinator. May be repeated for a maximum of 8 credits toward graduation.
Communication (COMM)

COMM 1000 Exploring the Communication Major 3:3:0 Fall, Spring, Summer
For students majoring in Communication. Provides information regarding specific degree emphases as well as career choices. Reviews and assesses grammar and writing skills that are specific to the communication field. Teaches basic research components.

COMM 1020 Public Speaking 3:3:0 Fall, Spring, Summer
Covers speech research, preparation, outlining, and delivery. Provides students with practical experience and evaluation. May be delivered online. Canvas Course Mats $68/Cengage applies.

COMM 1050 Introduction to Speech Communication 3:3:0 Fall, Spring, Summer
Surveys the questions, methods, and current status of knowledge in the discipline of speech communication. Explores the study of argument. Emphasizes reasoning, evidence, analysis, evaluation, audience analysis, and media strategy. May be delivered online.

COMM 1130 Writing for the Mass Media 3:3:0 Fall, Spring
Teaches Associated Press-style writing for the mass media. Focuses on organizing and presenting information to a mass audience. Emphasizes news writing.

COMM 120R Communication Forum 1:1:0 On Sufficient Demand
Facilitates students in engaging contemporary communication issues. Provides enriched learning situations in which students may interact with noted guest scholars. Includes discussions, lectures, symposia, field trips, outreach projects and other activities oriented to immerse students in the study of communication. Meets with the Communication Club. Grading is credit/no credit. May be repeated for a total of four credits.

COMM 128R Forensics 3:3:0 On Sufficient Demand
* Prerequisite(s): COMM 1020
Designed for students interested in inter-collegiate speech and theatre competition. Studies all aspects of intercollegiate speech competition and prepares the student for specialization in areas of the student's choice. Includes debate, public speaking, limited preparation speaking, oral interpretation, and reader's theatre. Members of the class will compete in forensics tournaments. Includes lecture, demonstration, practice speeches, and tournament competition. May be repeated for a maximum of 12 credits toward graduation.

COMM 1500 Introduction to Interpersonal Communication 3:3:0 Fall, Spring, Summer
Provides a survey of the structure, operation, diversity, and effects of mass media. Discusses the different forms of media and the impact of media. Explores opportunities in communication work. Also covers consumer impacts.

COMM 1610 Reporting for the Mass Media 3:0 Fall, Spring
* Prerequisite(s): COMM 1130
Provides an opportunity to learn about a career in journalism. Focuses on gathering and organizing information in the field. Includes interviewing, covering a beat, investigative reporting, reviews, and opinions. Simulates a journalist's working experience. Offers experience covering current events in the field.

COMM 2100 The News Editing Process 3:3:0 On Sufficient Demand
* Prerequisite(s): COMM 1130
Introduces news judgment, content, and forms. Prepares and edits copy for publication, including rewriting faulty stories, copy editing, proof-reading, headlines, newspaper design, and picture editing.

COMM 2110 (Cross-listed with: MGMT 2110) SS Interpersonal Communication 3:3:0 Fall, Spring, Summer
Examines the role of communication in interpersonal relationships. Includes the history of interpersonal communication research and theory, and applications such as negotiation, conflict management, listening, and assertiveness. May be delivered online.

COMM 2115 Introduction to Health Communication 3:3:0 Spring
Provides an introduction to and a foundation for the important area of health communication. Covers persuasion theories as applied to health communication research. Examines the history of medicine and healthcare. Describes patient to caregiver interaction.

COMM 2120 Small Group Communication and Decision Making 3:3:0 Fall, Spring
Provides an overview of the communication processes involved in small group interactions. Covers theories of leadership, decision-making, and problem-solving through group activities. May be delivered online.

COMM 2130 Television Writing and Reporting 1 to 3:0:3 to 9 Fall, Spring
* Prerequisite(s): (COMM 1130 or COMM 1610) and DGM 2110
Teaches advanced techniques in news writing and reporting for applied, multimedia contexts. Produces news stories for print, radio, television, and internet. Covers news selection, interviewing techniques, field reporting, news videography, and script-writing for the various media. Produces voice overs (VO), voice over to sound on tape (VO-SOT), and news packages for student-produced television newscast. Requires students to supply news packages for student-produced newscasts. Course fee of $10 for computers applies. Lab access fee of $30 for equipment, software applies.

* Prerequisite(s): ENGL 1010
Races cultural awareness through aesthetic, critical, and interdisciplinary examination of the evolution of the representation of race, class, and gender in American cinema. Focuses on both Hollywood and independent minority filmmakers. Some films screened may carry an R rating.

COMM 2200 Broadcast Journalism Anchoring and Producing 3:1:6 Not Offered
* Prerequisite(s): (COMM 1130 or COMM 1610) and DGM 2110
Teaches television news writing, anchoring, and the non-technical aspects of producing. Requires students to produce a weekly newscast in conjunction with students from Broadcast Production, and Multimedia News Writing and Reporting. Course fee of $10 for equipment, software applies. Lab access fee of $30 applies for computers.

COMM 2250 Principles of Advertising 3:3:0 On Sufficient Demand
* Prerequisite(s): COMM 1500
Introduces the basics of advertising research, strategy, creative execution, and media strategy.

COMM 2270 Argumentation 3:3:0 Fall, Spring
Examines the study of argument. Emphasizes reasoning, evidence, analysis, evaluation, audience analysis, and practice.
COMM 2280
Oral Interpretation 3:3:0
* Prerequisite(s): COMM 1020 or THEA 1033 or THEA 1113
Prepares students to perform individual oral interpretation of literature. Presents techniques relative to the interpretation of poetry, prose, and drama. Introduces interpreter's theatre. Completers should be conversant with the three major divisions of theatrical literature and be skilled in verbal and non-verbal communication as applied to theatrical productions.

COMM 2300
Public Relations 3:3:0 Fall, Spring, Summer
* Prerequisite(s): COMM 1500 or COMM 1050
Introduces the basics of writing for the media, designing corporate literature and working with the public in behalf of a business or individual.

COMM 2400
Organizational Communication 3:3:0 Fall, Spring, Summer
* Prerequisite(s): COMM 1050 or consent of instructor
Teaches how communication processes affect organizations. Applies theory to organizational analysis. Utilizes dialogue and network analysis to improve organizational values and performance. May be delivered online.

COMM 2510
Visual Strategies for Communication Majors 3:3:0 Fall, Spring
* Prerequisite(s): COMM 2300
Teaches strategies to visually align public relation campaigns with an organization's brand. Provides understanding of visual strategies involving social and new media. Creates a literacy of visual communication tools and strategies for articulating a vision to creative staff and requesting photography and images for the mass media.

COMM 2560 (Cross-listed with: DGM 2460)
Radio Production 3:3:0 Fall
Teaches the history of radio, and the structure of typical radio stations, from management to programming, sales, production, and promotion. Covers methods of producing radio promos, radio shows, commercials and news segments, as well as features and interviews. Uses Digital Audio Workstations to produce several radio segments of the student's choosing. Includes lectures, demonstrations, and guest lectures from radio stations in the community. Software fee of $20 applies. Lab access fee of $35 for computers applies.

COMM 2790
Magazine Writing 3:3:0 Fall
* Prerequisite(s): COMM 1610
For students interested in pursuing careers in journalism. Focuses on non-fiction writing for magazine consumption. Teaches how to research and write long, investigative feature articles. Includes analysis of the early magazine industry, contemporary issues in the magazine industry, and in-depth reporting on special topics, such as science, politics, culture and society, education, environment, and international affairs.

COMM 281R
Internship 1 to 8:0:5 to 40 Fall, Spring, Summer
* Prerequisite(s): Department Approval
Provides an opportunity for students to get college credit by working in communication-related fields. Applies academic concepts to actual work experiences. Requires instructor approval and final report. May be graded credit/no credit. May be repeated for a total of 8 credit hours toward graduation.

COMM 290A
Independent Study 1:1:0 On Sufficient Demand
* Prerequisite(s): COMM 1610, Approval of instructor and department chair.
For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other options as approved by the instructor.

COMM 290B
Independent Study 2:2:0 On Sufficient Demand
* Prerequisite(s): COMM 1610, Approval of instructor and department chair.
For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other options as approved by the instructor.

COMM 290C
Independent Study 3:3:0 On Sufficient Demand
* Prerequisite(s): Approval of instructor and department chair.
For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other options as approved by the instructor.

COMM 290D
Independent Study 4:4:0 On Sufficient Demand
* Prerequisite(s): COMM 1610, Approval of instructor and department chair.
For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other options as approved by the instructor.

COMM 3000 (Cross-listed with: PHIL 3010)
Media Ethics 3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Covers ethical issues in media communication. Includes discussions of ethnicity, gender, nationalism, and conflict. Demands development of moral agency. Examines tensions between individual freedoms and social responsibilities. Addresses ethical questions in the context of current struggles within and over corporate and public media.

COMM 3010
History of Mass Communication 3:3:0 Not Offered
* Prerequisite(s): ENGL 1010 and University Advanced Standing
Covers the historical development of the means, conventions, and institutions of communication. Focuses particularly on the rise of media in the United States.

COMM 3020
Communication Research Methods 3:3:0 Fall, Spring, Summer
* Prerequisite(s): [(COMM 1020, COMM 1050, and MATH 1040 or equivalent) or (COMM 1130, COMM 1500, and MATH 1040 or equivalent)] and University Advanced Standing
Covers basic communication research methods in both quantitative and qualitative research. Focuses on the research process and discusses the methodological tools for understanding and conducting basic communication research. Includes examples based on research and promotes awareness of the importance of quantitative and qualitative research perspectives as well as of data collection and analytical procedures.

COMM 3030
Mass Communication and Society 3:3:0 Not Offered
* Prerequisite(s): (COMM 1500 or ENGL 2010) and University Advanced Standing
Examines relationships between mass communication and society from a variety of theoretical perspectives and social concerns.
COMM 3050
Theories of Communication and Culture
3:3:0 Fall, Spring, Summer
* Prerequisite(s): COMM 1000 and ENGL 1010 and (((COMM 1020 and COMM 1050) or (COMM 1130 and COMM 1500)) and University Advanced Standing; all courses must be C- or better.

Covers main theoretical approaches to communication and culture. Includes transmission, ritual, symbolic interactionist, structuralist, post-structuralist, postmodern, and critical theories.

COMM 3100
Propaganda and Persuasion
3:3:0 Fall
* Prerequisite(s): COMM 1500 with a C- or higher required and University Advanced Standing; COMM 1000, COMM 3020, and COMM 3050 recommended

Examines various propaganda techniques inherent in advertising, public relations, and the mainstream news media in the United States. Prepares students to apply critical thinking skills to determine if or when propaganda techniques are used in order to understand the role of propaganda in their own mediated environment.

COMM 3110 (Cross-listed with: THEA 3110, ENGL 3110)
Non-Fiction Cinema History
3:2:3 On Sufficient Demand
* Prerequisite(s): ENGL 2150 and University Advanced Standing

Surveys the history of non-fiction/documentary film from 1896 to the present. Includes study of early pioneers from Flaherty's NANOOK OF THE NORTH to the current trend of reality television and popular documentaries. Some films screened may carry an "R" rating.

COMM 3120
Fundamentals of New and Social Media
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 2100, COMM 1500, and University Advanced Standing

Examines current issues in new and social media including the impact of new media on communication professions, basic strategic applications of new media tools for communication careers, and hands-on web skills (e.g., new media promotion, traffic monitoring and audience analysis, and personal branding).

COMM 3130
The Culture of Nature and Technology
3:3:0 Not Offered
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Analyzes the cultural construction of nature and technology from historical, interpretive, and critical perspectives. Deconstructs the nature/culture dichotomy. Critiques the neutrality of technology thesis. Explores the political and social implications of representations of, and relations to, nature and technology.

COMM 314G (Cross-listed with: THEA 314G, ENGL 314G)
Global Cinema History
3:2:3 On Sufficient Demand
* Prerequisite(s): (ENGL 2150 or THEA 1023) and University Advanced Standing

Studies the evolution of global film styles, movements, stars, and genres with a focus on international cinema chronologies outside the United States. Some films screened may be considered controversial and carry an "R" rating.

COMM 3150 (Cross-listed with: ENGL 3150, CINE 3150)
Film Theory
3:3:0 On Sufficient Demand
* Prerequisite(s): (CINE 2150 or ENGL 2150) and University Advanced Standing

Emphasizes film theory as cultural analysis. Relates cultural phenomena to films that reflect elements of contemporary film theory focusing on spectatorship, stars, narration, authorship, genre, and film production. Includes lecture, film screenings, and critical discussions of assigned readings. Some films screened may be considered controversial and carry an "R" rating.

COMM 319G
Intercultural Communication Encounters
3:3:0 Fall
* Prerequisite(s): COMM 2110, COMM 2120, and University Advanced Standing

Promotes awareness of the role of competent communication in intercultural awareness and sensitivity. Reviews classical and current definitions of culture and describes their general characteristics, with specific focus on the issue of cultural diversity. Describes the components and process of intercultural communication including perception and motivation. Provides an overview of differences and similarities in verbal and nonverbal intercultural communication. Identifies guidelines for achieving intercultural communication competence.

COMM 332G (Cross-listed with: MGMT 332G, CHIN 432G)
Cross-Cultural Communications for International Business
3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020 or COMM 1050) and University Advanced Standing

Discusses today's business environment which requires work in a multi-ethnic setting. Overviews critical elements that arise from the various cultural backgrounds which can impact both domestic and international organizations. Proceeds from a management point of view with lessons easily derived for the mid-level manager as well as for line personnel. Concentrates on managerial communications, negotiations, cultural changes, and management functions. May be delivered online.

COMM 3410 (Cross-listed with: BESC 3410, FAMS 3410)
Fundamentals of Mediation and Negotiation
3:3:0 Fall, Spring
* Prerequisite(s): (COMM 1050 or PSY 1010 or SOC 1010 or SW 1010) and University Advanced Standing

Teaches students to understand and participate knowledgeably on a basic level in the processes of mediation and negotiation. Emphasizes conceptual knowledge of both processes and improves practical skills and effectiveness as a mediator and negotiator. Uses an interactive-workshop format that blends theory with simulated class role-play.

COMM 3420 (Cross-listed with: BESC 3420)
Communication and Conflict
3:3:0 Fall, Spring, Summer
* Prerequisite(s): (BESC 3410 or COMM 3410 or COMM 2110 or LEGL 3150) and University Advanced Standing

Studies contemporary theories of conflict and communication. Analyzes the roles of culture, gender, personal, and organizational ethics in conflicts and disputes. Covers the nature of conflict and teaches methods of negotiation, mediation, and conflict resolution with an emphasis on collaborative problem-solving.

COMM 350R
Special Topics in Communication
3:3:0 Fall, Spring, Summer
* Prerequisite(s): COMM 1500, approval of advisor, and University Advanced Standing

Presents selected topics in communication, and will vary from semester to semester. Requires a project demonstrating competency in the specific topic. May be repeated with different topics for a total of 9 credits toward graduation.

COMM 3520
Public Relations Case Studies
3:3:0 Fall, Spring, Summer
* Prerequisite(s): COMM 1000, COMM 1500, COMM 2300, COMM 3020, and University Advanced Standing

Examines public relations strategic planning process through the analysis of case studies. Addresses strategic communication planning issues in media relations, crisis communications, ethics, creative planning, research, and evaluation, using real-world situations and clients. Promotes learning individually and in teams.

COMM 3530
Public Relations Writing
3:3:0 Fall, Spring, Summer
* Prerequisite(s): COMM 1130, COMM 1610, COMM 2300, ENGL 2010, and University Advanced Standing

Develops skills in persuasive writing for institutional or individual clients. Provides a hands-on experience in learning to develop and utilize public relations writing tools for corporate, non-profit, government, and public relations organizations. Covers writing for the media, designing and writing corporate literature, and working with the public on behalf of a business or individual as it relates to public relations.
Course Descriptions

COMM 3540
Sports Public Relations
3:3:0 Fall, Spring
* Prerequisite(s): COMM 1500, COMM 2300, and University Advanced Standing

Examines the history of sports communication for public relations, spotlights sports communication key influencers, and highlights the skills necessary to effectively communicate in a changing sports marketplace. Exposes students to how public relations, social networking, corporate involvement and mass media continue to shape a dynamic field that remains a top choice for creative communication professionals across the globe. Incorporates students' sports writing skills as they learn the execution of sports digital media plans, media conferences, and media availability. May be delivered online.

COMM 3600
Mass Media Ethics and Law
3:3:0 On Sufficient Demand
* Prerequisite(s): COMM 1500 and University Advanced Standing

Teaches the basics of media ethics and law. Includes ethics in journalism, broadcasting, advertising and public relations, and fundamental legal concerns, including First Amendment, libel, slander, media case law, advertising regulations, and copyright law.

COMM 362G
International Communication
3:3:0 On Sufficient Demand
* Prerequisite(s): COMM 3020, COMM 3050, and University Advanced Standing

Introduces theories of international communication. Covers different systems of the press in different countries. Analyzes specific case studies in international media.

COMM 363R
Wolverine Student Public Relations Firm
3:3:0 Fall, Spring
* Prerequisite(s): COMM 2300 and COMM 3530 and University Advanced Standing; all courses must be C- or better.

Provides valuable industry experience in a Public Relations firm style setting working in corporate and nonprofit sectors. Applies public relations writing, media relations, event planning, branding, copywriting, content creation and social media management for real-world organizations. Performs market and consumer research, have day-to-day contact with clients, create and implement Public Relations campaigns, and prepare campaign evaluations for client work. Enables students to create personal professional portfolios. May be repeated for a maximum of six credits toward graduation. May be graded Credit/No Credit.

COMM 3660
Investigative Reporting
3:3:0
* Prerequisite(s): COMM 1000 with a C- or higher and University Advanced Standing

Explores news and information in a democratic framework. Develops interview techniques, public record use, fact checking and electronic data access in relation to complex social issues.

COMM 3680
Advertising Media Planning
3:3:0 Not Offered
* Prerequisite(s): COMM 2300 and University Advanced Standing

Teaches the process of media planning. Covers procedures, issues, and methods of evaluation. Takes a problem-solving approach, oriented to targeting particular audiences in appropriate ways.

COMM 3690
Creative Strategy in Communication Campaigns
3:3:0 On Sufficient Demand
* Prerequisite(s): COMM 2300 or COMM 2250 and University Advanced Standing; all courses must be C- or better.

Prepares students for careers in public relations, journalism, and communication by exploring the role of research, copywriting, design, and media structures in developing persuasive messages. Emphasizes execution of creative strategies that are appealing to the intended audience, consistent with communication objectives, and formatted correctly for the media in which they are implemented.

COMM 3700
Free Expression in a Democratic Society
3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Examines the historical development of the concept of free speech and expression as a component of American democracy and society. Studies recorded statements concerning free speech beginning in the 5th century Greek writings, through the Romans, the medieval and renaissance centuries, the 17th and 18th centuries, and finally to the 1st amendment and the American Constitution. Includes general theories of free expression as well as specific Supreme Court cases that have molded our current concept of free speech.

COMM 3780
Mormon Cultural Studies
3:3:0 Spring
* Prerequisite(s): University Advanced Standing; COMM 3020 and COMM 3050 each recommended

Studies contemporary Mormon cultural issues from a cultural studies point of view. Interrogates prejudice against Mormons and non-Mormons. Explores historical Mormon constructions of race and gender. Develops an understanding of culture as a complex site of struggle where identities and social relations are actively produced, negotiated, and changed.

COMM 3790
Case Studies in Journalism
3:3:0 Spring
* Prerequisite(s): (COMM 1000, COMM 1610, COMM 2100, COMM 3020, and COMM 3050 with a C- or higher in each) and University Advanced Standing

Examines historically significant examples of the press in action from historical, ethical, and critical perspectives. Requires a research paper.

COMM 380R
Long-Format Video Journalism
3:3:0
* Prerequisite(s): (COMM 1610 or COMM 1130) and University Advanced Standing

Covers long-format video journalism, including pre-production, production, post-production, and legal and ethical issues. Studies a range of cinematic and televisual narrative strategies and structures. Includes the production of a long-format video story. May be repeated for a maximum of 6 credits toward graduation. Lab access fee of $30 for computers applies.

COMM 401G
Communication Education
3:3:0 Fall
* Prerequisite(s): COMM 1020 and University Advanced Standing; all courses must be C- or better.

Explores communication education. Identify concepts and apply them to the service and interaction. Focuses on teaching. Encourages critical examination of diversity, research, socio-emotional bonding, outreach to the communication community, and instructional issues that relate to teaching communication. Offers experience in the role of teaching assistant. Global/Intercultural understanding as it applies to communication theory is considered and explored from a variety of perspectives. Examines the perspectives, experiences and concerns of individuals and groups representing cultures other than one's own and specifically as those differences apply to public speaking. Understanding is integrated throughout the course content. Understanding and appreciation should enhance your educational experience and facilitate your preparation to participate as active, informed, respectful citizens.

COMM 4110
Interpersonal Communication Theory & Research
3:3:0 Fall
* Prerequisite(s): (COMM 1000, COMM 2110, COMM 3020, and COMM 3050 with a C- or higher in each) or Instructor Approval, and University Advanced Standing

Surveys current interpersonal research. Explores the interrelated nature of theory and research. Provides the foundational knowledge required to critically assess current research in the field. Creates an opportunity to systematically explore a personal area of interest within the area of interpersonal communication.

COMM 4115
Advanced Health Communication
3:3:0 On Sufficient Demand
* Prerequisite(s): (COMM 2115 or Instructor Approval) and University Advanced Standing; all courses must be C- or better.

Examines persuasion, interpersonal and organizational theories which are applied to patient, caregiver, technology, organizations and the mass media in an attempt to understand the health communication processes. Examine how communication influences health. Provides research skills necessary for the capstone course.
COMM 4200
Cross-listed with: BESC 4200, FAMS 4200
Advanced Mediation and Negotiation
3:3:0 Fall
*Prerequisite(s): (ENGL 2010 or ENGL 2020) and (BESC 3410 or COMM 3410 or BESC 3420 or COMM 3420) and University Advanced Standing
Prepares students to perform at an advanced level in the processes of mediation and negotiation. Builds on the fundamentals learned in the basic course, improves knowledge of both processes, and sharpens practical skills and effectiveness as a mediator or negotiator. Uses an interactive-workshop format that blends theory with simulated class role-play. A certification with the Utah State Court Administrator's office may be offered to those who pass the course and complete 10 hours of mediation and negotiation at the conclusion of the semester.

COMM 4250
Communication and Leadership
3:3:0 Fall
*Prerequisite(s): University Advanced Standing
Encourages students to critically analyze interpersonal effectiveness and professionalism. Examines advanced oral and written business communication, interpersonal communication, group and team communication and effectiveness, emotional intelligence, and power and influence skills.

COMM 431R
Communication Executive Lecture Series
1:1:0 Fall, Spring
*Prerequisite(s): University Advanced Standing
Offers expert lectures on public relations, communication management, and leadership in the business world. Varies topics and industry experts each semester. May be repeated as desired.

COMM 4830
Competitive Case Studies
3:3:0 Fall
*Prerequisite(s): COMM 1000 and COMM 3530 with a C- or higher in each, and Instructor Approval, and University Advanced Standing
Teaches competitive case studies with a public relations emphasis. Focuses on development, research, execution, and evaluation of strategic communication planning for a client. Prepares students to compete in regional or national competitions.

COMM 487R
Independent Study
1 to 3:1 to 3:0 On Sufficient Demand
*Prerequisite(s): Departmental Approval and University Advanced Standing
For advanced qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other advanced options as approved by the instructor. May be taken for a maximum of 9 credit hours toward graduation. May be graded credit/no credit.
Course Descriptions

Computing (COMP)

COMP 1000
Computer and Information Literacy
3:3:0
On Sufficient Demand

Discusses computer and information literacy, focusing on current technology, emerging technology, and social media. Promotes appropriate and ethical use of technology, critical-thinking skills, and problem-solving strategies. Develops skills in word processing, spreadsheet, presentation, and image-editing applications for personal and college success.

COMP 301R
Digital Lecture Series
1:1:0
Fall, Spring

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Guest speakers lecture on current topics in computer science, digital media, and information systems/technology. May be repeated for a maximum of 3 credits toward graduation. May be delivered online.

Collision Repair Technology (CRT)

CRT 100R
Paint Your Own Car
2:1:4
Fall, Spring, Summer

Designed as a survey class. Discusses and demonstrates safety, sanding, masking, feather edging, priming, and refinishing of a student's vehicle. Students will refinish their own projects in this class. Body and fender dents, rust out, etc., should be taken care of before class enrollment. The instructor will inspect and approve each project prior to allowing it in the program. Course is open to any community member who may profit from the instruction. May be repeated as desired for interest. Tool room fee of $10 applies.

CRT 1110
Surface Preparation
2:2:0
Fall

Covers environmental and personal safety when handling collision industry chemicals. Discusses metal preparation, surface treatment, painting and surface rust removal, proper sanding of old finishes, and film build tolerances. Teaches application and uses of undercoats, primers, primer surfacers, sealers and primer sealers. Covers block sanding, guide coats, wax and grease removers, and surface pre-cleaning techniques. Software fee of $10 applies. Lab access fee of $15 for computers applies.

CRT 111L
Surface Preparation Lab
1:0:3
Fall

* Corequisite(s): CRT 1110

Provides laboratory experience for surface preparation techniques aligning with lectures from CRT 1110. Topics include finish removal, sanding techniques, undercoating materials. Tool room fee of $10 equipment applies. Course Lab fee of $40 for materials applies.

CRT 1120
Nonstructural Repair
2:2:0
Fall, Summer

Offers in-depth analysis of minor damage and applied metal working techniques. Studies properties of metal, elasticity, corrosion protection, work hardening, rough out, hammer and dolly techniques, heat shrinking, pick and file and grinding methods. Presents application of corrosion protection materials, body fillers, including metal and fiber reinforced fillers, and their shaping. Emphasizes safety precautions. Software fee of $10 applies. Lab access fee of $15 for computers applies.

CRT 112L Nonstructural Repair Lab
1:0:3
Fall, Summer

* Corequisite(s): CRT 1120

Provides a laboratory experience for nonstructural repair techniques aligning with lectures from CRT 1120. Topics include fillers use, metallurgy, shrinking and stretching. Tool room fee of $10 for equipment applies. Course Lab fee of $22 for materials applies.

CRT 1130
Overall Refinishing and Problem Solving
2:2:0
Spring

Teaches use and maintenance of shop paint spray equipment. Studies types of undercoatings including sealers, primers, and primer surfacers, their use, limitations, and application. Discusses refinish products, their solid levels, coverage, and recommended refinish systems. Teaches prevention and removal of refinishing processing defects. Covers cutting and buffing. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of $10 applies. Lab access fee of $15 for computers applies.

CRT 113L Overall Refinishing and Problem Solving Lab
1:0:3
Spring

* Corequisite(s): CRT 1130

Provides a laboratory experience for overall refinishing and problem solving techniques aligning with lectures from CRT 1130. Topics include safety, substrate usage, application techniques, base coats, clear coats, single stage paints, and tri coat processes, application / refinish / material defects, causes and cures. Tool room fee of $10 for equipment applies. Course Lab fee of $74 for materials applies.

CRT 1140
Panel Replacement and Adjustment
2:2:0
Spring

Studies removal, replacement, and alignment of bolt-on body panels. Presents multiple latch mechanisms and their adjustments. Various trim and body fasteners are discussed. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of $10 applies. Lab access fee of $15 for computers applies.

CRT 114L Panel Replacement and Adjustment Lab
1:0:3
Spring

* Corequisite(s): CRT 1140

Provides a laboratory experience for panel replacement and adjustment techniques aligning with lectures from CRT 1140. Topics include replacement and alignment of bolt-on body panels, fasteners and trim. Tool room fee of $10 for equipment applies.

CRT 1210
Blending Tinting and Detailing
2:2:0
Spring


CRT 121L Blending Tinting and Detailing Lab
1:0:3
Spring

* Corequisite(s): CRT 1210

Provides a laboratory experience for blending tinting and detailing techniques. Identifies proper procedures for Single stage, Base coat, and Tri stage blending. Identifies detailing techniques and materials. Tool room fee of $10 for equipment applies. Course Lab fee of $53 for materials applies.

CRT 1230
Welding and Cutting
2:2:0
Fall, Summer

Introduces gas welding and cutting followed by intense study of MIG, TIG, STRSW welding of mild, high strength, ultra high strength steels, and aluminums. Studies the most common joints as they apply to current vehicles construction techniques. Introduces plasma arc cutting techniques. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of $10 applies. Lab access fee of $15 for computers applies.

CRT 123L Welding and Cutting Lab
1:0:3
Fall, Summer

* Corequisite(s): CRT 1230

Provides a laboratory experience for welding and cutting techniques aligning with lectures from CRT 1230. Topics include MIG, TIG , Squeeze Type Resistant Spot Welding (STRSW), welding processes. Tool room fee of $10 for equipment applies. Course Lab fee of $39 for materials applies.
**Course Descriptions**

**CRT 2310**
Collision Damage Reporting
2:2:0  Fall

* Prerequisite(s): CRT 1120, CRT 1130, CRT 1230, recommended


**CRT 231L**
Collision Damage Reporting Lab
1:0:3  Fall

* Prerequisite(s): CRT 112L, CRT 113L, CRT 123L, all recommended

* Corequisite(s): CRT 2310

Provides a laboratory experience for collision damage estimating techniques aligning with lectures from CRT 2310. Topics include: damage analysis sequence, repair and replace decisions, using crash estimating guide, procedure page analysis of crash estimating guide, selecting parts and labor amounts in crash estimating guide, and various estimating programs for the computer. Tool room fee of $10 for equipment applies. Course Lab fee of $23 for materials applies.

**CRT 2320**
Structural Damage Analysis
2:2:0  Fall

* Prerequisite(s): CRT 1230

Teaches visual inspection, gauging, measuring, laser technology, and procedures needed to correctly evaluate primary and secondary structural damage. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of $10 applies. Lab access fee of $15 for computers applies.

**CRT 232L**
Structural Damage Analysis Lab
1:0:3  Fall

* Prerequisite(s): CRT 123L

* Corequisite(s): CRT 2320

Provides a laboratory experience for analyzing structural damage to conventional and unibody frames. Aligns with lectures from CRT 2320. Topics include: damage identification, body and frame measurement systems, interpret dimension information, set up and properly use a variety of manual, and computerized measuring systems. Tool room fee of $10 for equipment applies. Course Lab fee of $20 for materials applies.

**CRT 2330**
Structural Repair
2:2:0  Fall

* Prerequisite(s): CRT 1230

Teaches methods, strategies, and technology needed to align and straighten unibody and conventional frame components made from high strength steel and plastics. Studies alignment of steering and suspension components. Includes lecture, demonstrations, and lab. Software fee of $10 applies. Lab access fee of $10 applies.

**CRT 233L**
Structural Repair Lab
1:0:3  Fall

* Prerequisite(s): CRT 123L

* Corequisite(s): CRT 2330

Provides a laboratory experience for aligning and straightening unibody and conventional components made from high strength steel and plastics. Tool room fee of $10 for equipment applies.

**CRT 2340**
Full and Partial Panel Replacement
2:2:0  Spring

* Prerequisite(s): CRT 1140, CRT 1230

Teaches removal, alignment, welding, gluing, and corrosion protection technology needed to replace unibody components including rails, pillars, and weld-on panels. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of $10 applies. Lab access fee of $15 for computers applies.

**CRT 234L**
Full and Partial Panel Replacement Lab
1:0:3  Spring

* Prerequisite(s): CRT 114L, CRT 123L

* Corequisite(s): CRT 2340

Provides a laboratory experience for full and partial panel replacement, aligning with lectures from CRT 2340. Topics include: removal, alignment, welding, gluing, and corrosion protection technology needed to replace unibody components: including rails, pillars, and weld-on panels. Tool room fee of $10 for equipment applies. Course Lab fee of $15 for materials applies.

**CRT 2400**
Plastic Paintless Dent Repair
2:2:0  Spring

* Prerequisite(s): CRT 1110, CRT 1120


**CRT 240L**
Plastic PaintLess Dent Repair Lab
1:0:3  Spring

* Prerequisite(s): CRT 111L, CRT 112L

* Corequisite(s): CRT 2400


**CRT 2420**
Plastic Repair
4:1.5:7  Spring

Teaches various repair methods, tools, and materials used to correctly repair plastic materials and SMC panels in modern vehicles. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of $10 applies. Lab access fee of $15 for computers applies.

**CRT 2430**
Mechanical and Electrical Repair
4:1.5:7  Spring

Teaches basic mechanical systems theory, removal, and replacement. Studies A/C systems, cooling, braking, emission, restraint, and electrical systems. Includes lecture, demonstrations and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of $10 applies. Lab access fee of $15 for computers applies.

**CRT 2440**
Mechanical Advanced Vehicle Systems
2:2:0  Spring


**CRT 244L**
Mechanical Advanced Vehicle Systems Lab
1:0:3  Spring

* Corequisite(s): CRT 2440


**CRT 2450**
Bags Brakes Steering
2:2:0  Spring

Teaches the operation and repair of active and passive restraint systems. Diagnosis of sensors, modules and related components is also discussed. Discusses drum, disc, and anti-lock brake systems and components. Covers parallelagram, and rack and pinion steering systems, repair, replacement and diagnosis of each system is addressed. Uses Advanced Tech I-CAR curriculum.
Course Descriptions

CRT 245L
Bags Brakes Steering Lab
1:0:3 Spring
* Corequisite(s): CRT 2450
Teaches the operation and repair of active and passive restraint systems. Diagnosis of sensors, modules and related components is also discussed. Discusses drum, disc, and anti-lock brake systems and components. Covers parallelogram, and rack and pinion steering systems, repair, replacement and diagnosis of each system is addressed. I-CAR Advanced Tech curriculum is used. Tool room fee of $10 for equipment applies. Course Lab fee of $27 for materials applies.

CRT 2510
Custom Welding
2:2:0 Fall
For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members with a welding background. Covers TIG welding processes for mild steel, stainless steel, and aluminum. Teaches oxyacetylene welding processes for mild steel, brass, copper, pot metal, and aluminum.

CRT 251L
Custom Welding Lab
1:0:3 Fall
* Corequisite(s): CRT 2510
Provides a laboratory experience for TIG welding processes for mild steel, stainless steel, and aluminum. Instruction in Oxyacetylene welding processes for mild steel, brass, copper, pot metal, and aluminum. Tool room fee of $10 for equipment applies. Course Lab fee of $69 for materials applies.

CRT 2520
Customizing
2:2:0 Fall
For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members with a welding background. Covers fanching, shaving, body modifications, convertible conversions, building hood scoops, louvers, flare, and other technical customizing processes.

CRT 252L
Customizing Lab
1:0:3 Fall
* Corequisite(s): CRT 2520
Provides a laboratory experience for fanching, shaving, body modifications, convertible conversions, building hood scoops, louvers, flare, and other technical customizing processes. Tool room fee of $10 for equipment applies. Course Lab fee of $11 for materials applies.

CRT 2530
Panel Fabrication
2:2:0 Fall
For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members. Covers basic fabricating tools such as sheet metal brake, slide rolls, band saw, and nibblers. Uses specialty tools such as English wheel, power hammer, kraftfomer, plenisher hammer, stretchers, and stretchers. Teaches panel fabrication and hammer forming.

CRT 253L
Panel Fabrication Lab
1:0:3 Fall
* Corequisite(s): CRT 2530
Provides a laboratory experience for basic fabricating tools such as sheet metal brake, slide rolls, band saw, and nibblers. Uses specialty tools such as English wheel, power hammer, kraftfomer, plenisher hammer, shrinkers, and stretchers. Teaches panel fabrication and hammer forming. Tool room fee of $10 equipment applies. Course Lab fee of $60 materials applies.

CRT 2540
Structural Body Fabrication
2:2:0 Not Offered
For students pursuing a diploma or AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members. Covers body construction from bumper to bumper and from roof to floor. Enhances knowledge of structural components of a well constructed vehicle.

CRT 254L
Structural Body Fabrication Lab
1:0:3 Not Offered
* Corequisite(s): CRT 2540
Provides a laboratory experience for body construction from bumper to bumper and from roof to floor. Enhances knowledge of structural components of a well constructed vehicle.

CRT 2560
Top Chopping Sectioning and Channeling
2:2:0 Spring
* Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140
For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members with a basic welding and collision repair background. Covers the history of vintage vehicles, methods of top chopping, sectioning and channeling techniques.

CRT 2561L
Top Chopping Sectioning and Channeling Lab
1:0:3 Spring
* Corequisite(s): CRT 2610
Provides a laboratory experience for methods of top chopping, sectioning and channeling techniques. Tool room fee of $10 for equipment applies. Course Lab fee of $16 for materials applies.

CRT 2620
Frames
2:2:0 Spring
* Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140
For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members with a welding background. Identifies the different types of frames and how to modify them. Teaches sub-framing, pro-streeting, narrowing of rear ends, drive shafts, and complete frame change over. Covers exhaust systems and other alterations, front to rear.

CRT 262L
Frames Lab
1:0:3 Spring
* Corequisite(s): CRT 2620
Provides a laboratory experience for identifying the different types of frames and how to modify them. Teaches sub-framing, pro-streeting, narrowing of rear ends, drive shafts, and complete frame change over. Covers exhaust systems and other alterations, front to rear. Tool room fee of $10 equipment applies.

CRT 2630
Detailing and Custom Painting
2:2:0 Spring
* Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140, CRT 1210
For students pursuing a Diploma or an AAS degree in Collision Repair Technology or Custom Street Rod Technology or interested community members with a automotive painting background. Teaches custom painting and detailing for show cars. Emphasizes flames, scallops, shredding, checker boarding, air brush techniques, murals, fish scales, three stage paints, pearls, candies, and multi-colored changes.

CRT 263L
Detailing and Custom Painting Lab
1:0:3 Spring
* Prerequisite(s): CRT 111L, CRT 112L, CRT 113L, CRT 114L, CRT 121L
* Corequisite(s): CRT 2630
Provides a laboratory experience for custom painting and detailing for show cars. Emphasizes flames, scallops, shredding, checker boarding, air brush techniques, murals, fish scales, three stage paints, pearls, candies, and multi-colored changes. Tool room fee of $10 for equipment applies. Course Lab fee of $73 for materials applies.

CRT 2640
Panel Fabrication of Aluminum
2:2:0 Fall
* Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140
For students pursuing a diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members. Covers basic hand tools, such as: hammers, dollys, leather bags, and slappers. Use of specialty equipment, such as: English wheel, Pullmax, nibbler, power hammers, and bead rollers. Teaches making bucks, patterns and forms. Teaches panel fabrication of aluminum.

CRT 264L
Panel Fabrication of Aluminum Lab
1:0:3 Fall
* Corequisite(s): CRT 2640
Provides laboratory experience for use of: hammers, dollys, leather bags, and slappers. Instructs in the use of specialty equipment, such as: English wheel, Pullmax, nibbler, power hammers, and bead rollers. Teaches making bucks, patterns and forms. Teaches panel fabrication of aluminum. Tool room fee of $60 for equipment applies. Course Lab fee of $60 for materials applies.
Computer Science (CS)

CS 1030 Foundations of Computer Science 3:3:0 Fall, Spring, Summer
Introduces the basics of computing, including computer hardware, and programming concepts and language. Explores how computers work and how a computer may be programmed. Includes a brief history of computer programming languages, and computer numbering systems. Presents basic programming constructs; students produce a variety of introductory-level programs. Surveys various computing professions. May be delivered hybrid and/or online. Lab access fee of $35 computers applies.

CS 129R Fundamental Topics in Computer Science 3:3:0 Not Offered
* Prerequisite(s): As required by topic, contact instructor. Introduces and explores topics of current interest in computer science at a fundamental level. Topics vary each semester depending upon the current state of technology. A maximum of three (3) credits may be counted towards graduation without prior written CNS Department approval. Lab access fee of $35 for computers applies.

CS 1400 Fundamentals of Programming 3:3:0 Fall, Spring, Summer
* Prerequisite(s): MAT 1010 or higher or appropriate test scores. CS 1030 strongly recommended
For Majors in Computer Science, Computer Engineering, Software Engineering, and other majors requiring computer programming skills. Introduces the fundamental concepts of computer programming. Presents the ideas, tools, structure, syntax, and design techniques for developing well-formed programs. Studies problem solving, program structure, data types, decision logic, loops, functions, input and output, and arrays. Introduces the basic ideas of classes and objects. Requires students to program a number of assignments that demonstrate their understanding of these concepts. May be delivered online. Lab access fee of $35 for computers applies.

CS 1410 Object-Oriented Programming 3:3:0 Fall, Spring, Summer
* Prerequisite(s): CS 1400
Introduces the key concepts of object-oriented programming. Includes pointers and dynamic memory allocation, linked lists, inheritance and polymorphism, the development of graphical user interfaces, operator overloading, memory management, exceptions, templates and the standard template library, and an overview of object-oriented analysis and design. May be delivered online. Lab access fee of $35 for computers applies.

CS 2250 Java Programming 3:3:0 Not Offered
* Prerequisite(s): CS 1400
Covers practical Java programming in-depth, including abstract classes and interfaces, proper use of the packages Java.lang, Java.io, and Java.util, GUI design and implementation, and programming. Lab access fee of $35 for computers applies.

CS 2300 Discrete Mathematical Structures I 3:3:0 Fall, Spring, Summer
* Prerequisite(s): CS 1410 and (MATH 1050 or higher)
For Computer Science Majors. Covers algebraic structures applied to computer programming. Includes logic, sets, relations, graphs, and trees. First of a two-semester sequence. Lab access fee of $35 for computers applies.

CS 2370 C-plus-plus Programming 3:3:0 Not Offered
* Prerequisite(s): CS 1400
Covers practical C++ programming in-depth, including advanced operator overloading and memory management, proper use of exceptions, defensive programming techniques, automated testing, multiple inheritance, advanced memory management, proper use of the standard template library, and programming. Lab access fee of $35 for computers applies.

CS 239R Current Topics in Computer Science 1 to 3:1 to 3:0 Not Offered
* Prerequisite(s): Department approval
Discusses emerging technologies and state-of-the-art topics of current interest in computer science. Varies each semester depending upon the state of technology. A maximum of three hours may be counted towards graduation without prior written CNS Department approval. Lab access fee of $35 for computers applies.

CS 2420 Introduction to Algorithms and Data Structures 3:3:0 Fall, Spring, Summer
* Prerequisite(s): CS 1410
Introduces data structures using an object-oriented programming language, and paradigm. Studies data abstraction as a design tool. Includes advanced arrays, records, dynamic data structures, searching and sorting, vectors, trees, linked lists, and graphs. Uses file I/O to store data structures. Discusses algorithm metrics. Lab access fee of $35 for computers applies.

CS 2450 Software Engineering 3:3:0 Spring, Summer
* Prerequisite(s): CS 2300, CS 2420
Presents concepts, methodology and best-practices necessary to develop large scale software projects. Includes step-wise software requirements analysis, design, implementation, testing and release. Discusses software generation, reuse, scheduling, verification, and maintenance. Emphasizes current *real world* industry best-practices and tools. Lab access fee of $35 for computers applies.

CS 2550 Web Programming I 3:3:0 Spring, Summer
* Prerequisite(s): CS 1410 or DGM 2760 or INFO 1200
Covers design and development of browser-based programs with an emphasis on single-page applications. Teaches generation and modification of HTML via JavaScript, debugging techniques, communicating with web servers, and use of XML and JSON. May be delivered online. Lab access fee of $35 for computers applies.
CS 2600
Computer Networks I
3:3:0 Fall, Spring
* Prerequisite(s): CS 2810 or (INFO 1200 and IT 1600)
A rigorous introduction to computer networking theory and technologies for Computer Science and
Information Technology majors. Includes theory of data communications protocols; theory and design of
transmission systems; transmission media; and communication software. Emphasizes the lower layers of
the Open Systems Interconnection model. Requires lab exercises to be completed outside of lecture. Lab access fee of $35 for computers applies.

CS 2690
Computer Networks II
3:3:0 Fall, Spring
* Prerequisite(s): CS 1410, CS 2300, CS 2600, MATH 1210
A continuation of CS 2600 Computer Networks I, focusing on the upper layers of the OSI and Internet models. Covers Internet (TCP/IP) protocols, routing theory, transport protocols, network application interfaces, presentation formatting, information theory and compression, cryptography, and other emerging technologies as time permits. Requires lab exercises and programming assignments to be completed outside of lecture. Software fee of $15 applies. Lab access fee of $35 for computers applies.

CS 279R
Current Topics in Networking
1 to 3:1 to 3:0 Not Offered
* Prerequisite(s): Department approval
Provides exposure to emerging technologies and state-of-the-art topics of current interest in networking. Varies each semester depending upon the state of technology. A maximum of three hours may be counted towards graduation without prior written CNS Department approval. Lab access fee of $35 for computers applies.

CS 2810
Computer Organization and Architecture
3:3:0 Fall, Spring, Summer
* Prerequisite(s): CS 1400
Uses assembly language to introduce basic concepts of computer organization. Includes number systems, CPU organization, instruction sets, programming in assembly, memory organization, debugging, program design, and documentation. Covers interrupts, vector tables, and disk I/O. Lab access fee of $35 for computers applies.

CS 281R
Internship
1 to 8:0 to 40 Fall, Spring, Summer
* Prerequisite(s): Department approval
Provides on-the-job work experience for CNS majors. Utilizes the skills and abilities in the fields of computer science, software engineering, networking, and/or computer engineering. May be repeated for a maximum of three credits toward graduation. May be graded credit/no credit.

CS 291R
Independent Study
1 to 6:0 to 6:0 to 18 Not Offered
This course will allow the student to pursue an independent topic in computer science and study this topic in-depth in a flexible non-classroom environment. A maximum of three hours may be counted towards graduation without prior written CNS Department approval. The topic must be approved by the instructor and the CNS Department Chair. Lab access fee of $35 for computers applies.

CS 296R
Seminar
1 to 3:0 to 3:0 to 12 Not Offered
* Prerequisite(s): Department approval. The topic must be approved by the instructor
Provides on-the-job work experience for CNS majors. May be graded credit/no credit.

CS 305G
Global Social and Ethical Issues in Computing
3:3:0 Fall, Spring
* Prerequisite(s): ENGL 2020 and (CS 1030 or CS 1400 or INFO 1120 or DGM 1110) and University Advanced Standing
Examines how computers have affected global society and how they could further affect it in the future. Challenges students to (1) examine several types of ethical reasoning to establish an ethical framework to assist in making normative judgments, (2) examine various ethical issues surrounding computer usage, particularly in differing societal contexts, (3) understand the responsibilities they bear, to know how their actions can affect both society and individual people in their own and other cultural settings, and to appreciate both the good and the harm they can do and (4) consider many of the moral and professional issues that those who work with computers might expect to face. Lab access fee of $35 for computers applies.

CS 3060
Operating Systems Theory
3:3:0 Fall, Spring
* Prerequisite(s): CS 2420, CS 2810, and University Advanced Standing
Introduces the Unix operating system. Presents the underlying theory and concepts of an operating system, and covers the following topics in depth: device management, processes, threads, synchronization, scheduling, deadlocks, memory management, virtual memory, and file systems. Provides practical experience in writing programs that use standard Unix system calls to interface directly with the operating system. Most of the programs will be written in the C language. Lab access fee of $35 for computers applies.

CS 3100
Discrete Mathematical Structures II
3:3:0 Fall, Spring
* Prerequisite(s): CS 2300, CS 2420, CS 2810, and University Advanced Standing
Presents concepts from discrete mathematics including formal languages, and automata, including Turing machines, regular expressions, grammars, and computability. Lab access fee of $35 for computers applies.

CS 3250
Java Software Development
3:3:0 Fall, Spring
* Prerequisite(s): CS 2420 and University Advanced Standing
Covers features of the Java Programming Language, emphasizing mastery of core Java packages, java.lang, java.io, java.util, and other commonly-used library packages. Topics include abstract classes, interfaces, inner classes, JavaBeans, I/O operations in depth, collections and algorithms, reflection, threads, the Java Event Model, basic Swing Components, and XML processing. Introduces common idioms and design patterns. Emphasizes accepted software engineering Lab access fee of $35 for computers applies.

CS 3260
CsharpNET Software Development
3:3:0 Fall, Spring
* Prerequisite(s): CS 2420 and University Advanced Standing
Introduces the C# programming language and the .NET Framework that the programming language is within. Discusses the various datatypes, built-in class in namespaces, and how to develop user defined classes and namespaces. Includes programming assignments for console, GUI, and ASP.NET applications. Lab access fee of $35 for computers applies.

CS 3270
Python Software Development
3:3:0 Fall, Spring
* Prerequisite(s): CS 2420 and University Advanced Standing
Covers the features of the Python programming language. Includes scripting, dynamic typing, data types (sequences, sets, mappings, files, etc.), loops, iterators, generators, functions, coroutines, classes and objects, modules, packages and scope, runtime services, data wrangling, concurrent programming, etc. Lab access fee of $35 for computers applies.

CS 3310
Analysis of Algorithms
3:3:0 Fall, Spring
* Prerequisite(s): MATH 1210, CS 2300, CS 2420, and University Advanced Standing
Introduces development and mathematical analysis of fundamental computer algorithms. Topics include: Divide and conquer and greedy algorithms, dynamic programming, backtracking, branch and bound and NP-completeness. Lab access fee of $35 for computers applies.
Courses offered outside of the University curriculum.

**Course Descriptions**

**CS 3320**
**Numerical Software Development**
3:3:0 Spring
* Prerequisite(s): CS 2300, CS 2430, CS 2450, MATH 1210, and University Advanced Standing

Gives students mastery of the tools necessary for modern scientific computation. Covers computer representation of floating-point numbers, error analysis and numerical stability, IEEE floating-point standards, testing of numerical algorithms, calculation of elementary functions, roots of equations, solutions of linear systems, numerical integration and differentiation, interpolation and approximation, Monte Carlo methods. Lab access fee of $35 for computers applies.

**CS 3370**
**C-plus-plus Software Development**
3:3:0 Spring
* Prerequisite(s): CS 2300, CS 2420, and University Advanced Standing

Prepares students for C++ programming in a production environment, emphasizing mastery of the standard C++ library. Covers the following topics in-depth: const correctness, operator overloading, exception handling, exception-safe design, programming with assertions, automated unit testing, multiple inheritance, advanced memory management, generic programming with templates, containers, iterators, algorithms, and function objects. Introduces library development, client-server concepts, common idioms and design patterns, and other advanced topics. Emphasizes accepted software engineering Lab access fee of $35 for computers applies.

**CS 339R**
**Advanced Programming Language-Other**
3:3:0 Not Offered
* Prerequisite(s): Varies depending on language offered; University Advanced Standing

Introduces and explores advanced state-of-the-art programming languages and concepts. Investigates topics using language specific analysis, design, Rapid Application Development (RAD), implementation, and testing. Explores language specific syntax, semantics, libraries, the integrated development environment, and debugging techniques. Demonstrates language concepts by developing and writing programs. A maximum of 3 credits will count towards graduation; however, with prior written CNS Department approval more than 3 credits may be counted towards graduation. May be delivered hybrid. Lab access fee of $35 for computers applies.

**CS 3410**
**Human Factors in Software Development**
3:3:0 Fall
* Prerequisite(s): (CS 3250 or CS 2620 or CS 3370 or INFO 2200) and University Advanced Standing

Studies issues of software analysis, design, and development for and from the perspective of computer-human interaction. Emphasizes design of the computer-human interface, effective presentation of data via graphics, color, text, sound, etc., to the user. Uses development tools for effective graphic presentation, the elements of effective information presentation to users. May be delivered hybrid. Lab access fee of $35 for computers applies.

**CS 3450**
**Principles and Patterns of Software Design**
3:3:0 Fall
* Prerequisite(s): (CS 3250 or CS 3260 or CS 3270 or CS 3370) and University Advanced Standing

Gives students familiarity with modern principles and practices of software design. Emphasizes design patterns, including their motivation and the design principles on which they are based. Lab access fee of $35 for computers applies.

**CS 3520**
**Database Theory**
3:3:0 Fall, Spring, Summer
* Prerequisite(s): CS 2300, CS 2420, and University Advanced Standing

For Computer Science majors. Introduces theory, concepts, architecture, and use of database management systems (DBMS). Presents the relational and object-oriented database models used in both local and client/server databases. Discusses the Structured Query Language (SQL), database design, normalization theory, and relational calculus relating to database management systems. Lab access fee of $35 for computers applies.

**CS 3540**
**Game Programming**
3:3:0 Spring
* Prerequisite(s): CS 2420 and University Advanced Standing

Teaches techniques for two and three-dimensional graphics programming using DirectX, OpenGL, and/or game engines built on those libraries. Presents concepts of game design that relate to the design and implementation of game software, including procedural generation of assets. Includes application of artificial intelligence concepts to game programming. Introduces the use of network programming techniques for development of multi-player games. May be delivered hybrid. Lab access fee of $35 for computers applies.

**CS 3550**
**Internet Software Development**
3:3:0 Fall
* Prerequisite(s): CS 1410 and University Advanced Standing

Covers web application programming concepts and development. Focuses on client-side design and programming, especially how JavaScript, CSS and Ajax can be used to develop web applications. Lab access fee of $35 for computers applies.

**CS 3560**
**Web Programming II**
3:3:0 Fall, Spring
* Prerequisite(s): CS 2420, CS 2550, and University Advanced Standing

Builds upon concepts taught in CS 2550 Web Programming I. Teaches how to design, implement, test, and debug medium sized web applications using both client and server side technologies. Includes web security, data markup languages, server side scripting technologies, web application interactions with databases, and web service architectures. Students will develop a full web-site having sophisticated user interactions at a variety of security levels. May be delivered hybrid. Lab access fee of $35 for computers applies.

**CS 3670**
**Network Programming**
3:3:0 Spring
* Prerequisite(s): CS 2690, CS 3250, and University Advanced Standing

Covers concept and practical application of socket communication and network protocols. Presents design and implementation of network applications, with special focus on applications for handheld devices such as smart phones. May be delivered online. Lab access fee of $35 for computers applies.

**CS 3680**
**Mobile Device Programming**
3:3:0 Fall
* Prerequisite(s): CS 2420 and University Advanced Standing

Teaches software design and programming principles and practices for developing applications for mobile devices. Addresses issues such as application life-cycle, user interfaces on touch-screen devices, options for data storage and communication, power and performance, and using graphics and media. Examines hardware features common in mobile devices such as GPS, accelerometers, and cameras. Lab access fee of $35 for computers applies.

**CS 3720**
**Database Programming**
3:3:0 Spring
* Prerequisite(s): CS 3520 and University Advanced Standing

Concerns the design and development of local, remote, web and cloud databases. Uses console, Microsoft Windows WPF and web user interfaces. Lab access fee of $35 for computers applies.

**CS 4100**
**Database Management System Construction**
3:3:0 Fall
* Prerequisite(s): CS 3520 and (CS 3220 or CS 3250 or CS 3260) and University Advanced Standing

Looks at issues involved in actually implementing a DBMS. Students will implement a relational DBMS. Features of the DBMS include project, select and join, indexing, B+ trees, parsing and query optimization. Lab access fee of $35 for computers applies.

**CS 4230**
**Software Testing and Quality Engineering**
3:3:0 Fall
* Prerequisite(s): CS 2450, MATH 2040, and University Advanced Standing

Provides a comprehensive exploration of strategies for testing computer systems. Includes unit testing, system testing, developing software testing organization, and establishing software Total Quality Management (TQM) programs. Students will conduct system tests of software packages. Lab access fee of $35 for computers applies.
CS 4260
Digital System Simulation
3:3:0
* Prerequisite(s): CS 3060, MATH 2040, and University Advanced Standing

Introduces simulation of the methods used to study the behavior of digital systems. Includes the study of discrete simulation models, queuing theory, the generation of random numbers and varieties, and stochastic processes. Compares popular simulation languages and commercially available simulation tools. Describes approaches to design of simulation experiments and the analysis of experimental data. Lab access fee of $35 for computers applies.

CS 4380
Advanced/High-Performance Computer Architecture
3:3:0 Fall
* Prerequisite(s): CS 3060 and University Advanced Standing

Presents theory and concepts of high-performance computer architectures. Includes digital logic, buses, registers, ALU’s, control units, pipelining, parallelism, DASD’s, SASD’s, RAID, caching, instruction-sets, memory hierarchy, multiprocessing, interconnection via networks. Lab access fee of $35 for computers applies.

CS 439R
Advanced Current Topics in Computer Science
1 to 3:1 to 3:0 On Sufficient Demand
* Prerequisite(s): Department approval and University Advanced Standing

Provides exposure to emerging technologies and topics of current interest in computer science. Varies each semester depending upon the state of technology. A maximum of 6 hours may be counted toward graduation without CS Department approval. Lab access fee of $35 for computers applies.

CS 4400
Software Engineering II
3:3:0 Fall
* Prerequisite(s): CS 2450, CS 2600, CS 3520, and (CS 3260 or CS 3260 or CS 3270 or CS 3370), and University Advanced Standing
* Prerequisite(s) or Corequisite(s): CS 3450

Covers principles and practices of early phases of software development life cycle. Studies software requirements elicitation, analysis, and design. Includes in-depth, practical study of at least one major software development approach as applied to a realistic organizational systems problem. Explores requirements definition, analysis including prototyping, functional and nonfunctional requirements specification, legacy systems, and architecture patterns. Lab access fee of $35 for computers applies.

CS 4440
Applied 3D Computer Graphics
3:3:0 On Sufficient Demand
* Prerequisite(s): CS 2420 with a C or better and (CS 3220 or CS 3250 or CS 3260 or CS 3270 or CS 3370 or CS 339R), and University Advanced Standing

Introduces simulation of the methods used to study the behavior of digital systems. Includes the study of discrete simulation models, queuing theory, the generation of random numbers and varieties, and stochastic processes. Compares popular simulation languages and commercially available simulation tools. Describes approaches to design of simulation experiments and the analysis of experimental data. Lab access fee of $35 for computers applies.

CS 4450
Analysis of Programming Languages
3:3:0 Fall
* Prerequisite(s): CS 3240 and University Advanced Standing

Offers the mature student an in-depth understanding of the design and implementation of programming languages. Criteria for evaluating programming languages are established as a context for comparing both traditional and current popular languages. Topics include the evolution of programming languages, syntax analysis, the concept of binding, type checking, static and dynamic scoping, control structures, subprograms and parameter passing methods, concurrency, and exception handling. Explores the functional programming paradigm in-depth. Includes programming assignments in at least two different programming languages, at least one of which being a functional language such as LISP, Scheme, ML, or Haskell. Lab access fee of $35 for computers applies.

CS 4470
Artificial Intelligence
3:3:0 Fall
* Prerequisite(s): CS 3240, CS 3310, CS 3320, and (CS 3250 or CS 3260 or CS 3270 or CS 3370), and University Advanced Standing

Presents theory, organization, concepts, and principles of artificial intelligence methodologies including neural networks, expert systems, machine learning algorithms, and genetic algorithms. Lab access fee of $35 for computers applies.

CS 4480
Digital Image Processing and Computer Vision
3:3:0 Spring
* Prerequisite(s): CS 2300, CS 2420, CS 3320, and University Advanced Standing

Presents theory and implementation concepts of 2D and 3D computer graphics as used in areas such as computer games, movie special effects, scientific visualization and art. Focuses on the development of applications using an existing cross-platform graphics library rather than on the development of a graphics library. Lab access fee of $35 for computers applies.

CS 4490
Compiler Construction
3:3:0 Spring
* Prerequisite(s): CS 4380, CS 4450, and University Advanced Standing

Studies theory, analysis and design of class developed compiler. Requires completion of a program level assessment test. Lab access fee of $35 for computers applies.

CS 4500
Advanced Topics in Database
3:3:0 Spring
* Prerequisite(s): (CS 3520 or INFO 3410) and University Advanced Standing

Covers transaction processing, concurrency control techniques, database recovery techniques, database security and authorization, database integrity, distributed databases and client-server architectures, load balancing, data warehousing, data mining, database machines, mobile database, multimedia database, GIS, genome data management, data fragmentation, data encryption, locking, and deadlock. Lab access fee of $35 for computers applies.

CS 4510
Operating Systems Design and Simulation
3:3:0 Not Offered
* Prerequisite(s): CS 4380 and University Advanced Standing

Presents architecture, principles concepts, design, implementation, and simulation of modern operating systems. Studies architecture, design, and simulation of an operating system. Discusses queueing, scheduling, resource allocation, and memory management. Lab access fee of $35 for computers applies.

CS 4550
Software Engineering III
3:3:0 Spring
* Prerequisite(s): CS 4400, CS 4230, and University Advanced Standing

Senior-level, capstone project experience course. Requires operating as part of a high performance team. Includes completing the design and implementation of a large-scale software development project. Combines major milestone presentations to project clients, completing a portfolio of project-related artifacts, and offer an evaluation of the project and team experience. Requires students to take a program level assessment. Lab access fee of $35 for computers applies.

CS 4610
TCP/IP Internet Architecture
3:3:0 Fall
* Prerequisite(s): CS 2690 and University Advanced Standing

Provides theoretical, practical, administrative perspectives of the TCP/IP protocol and its use with the Internet. Includes coverage of IPv4, IPv6, TCP, OSPF and related protocols, IP addressing, subnetting issues, and domain name services are also covered. Lab access fee of $35 for computers applies.
CS 4620  
Data Mining  
3:3:0  
* Prerequisite(s): CS 3520 and University Advanced Standing  
Introduces the process of knowledge discovery and the basic theory of automatic extracting models from data, validating those models, solving the problems of how to extract (mine) valid, useful, and previously unknown interesting patterns from a source (database or web) which contains an overwhelming amount of information. Explains various models (decision trees, association rules, linear model, clustering, bayesian network, neural network) and how to apply them in practice. Algorithms applied include searching for patterns in the data, using machine learning, and applying artificial intelligence techniques. Teaches how to implement several relevant algorithms and use existing tools to mine real-world, business driven databases. Lab access fee of $35 for computers applies.

CS 4670  
Undergraduate Research Project for Networking Specialization  
3:3:0  
* Prerequisite(s): CS 3660, CS 4610, and University Advanced Standing  
Creates a system suitable for presentation and defense including project proposal, management plan, system design documentation, relevant testing and benchmarks, and final written and oral reports. Includes system design, systems integration and systems management. Encourages open source and community service projects. Requires completion of a program level assessment test. Lab access fee of $35 for computers applies.

CS 4690  
Distributed Internet Application Development  
3:3:0  
* Prerequisite(s): CS 3660, CS 3670, and (CS 3250 or CS 3260 or CS 3270 or CS 3370), and University Advanced Standing  
Provides significant team experience building software solutions that span large heterogeneous environments (e.g., Internet, corporate VPNs). Includes heterogeneous operating systems (e.g., Windows and Linux), databases (e.g., MySQL and MS SQLServer), service architectures (e.g., Net and ORB), remote objects, remote services, and data exchange (e.g., SOAP and JSON). Requires completion of a program level assessment test. May be delivered hybrid. Lab access fee of $35 for computers applies.

CS 4770  
Software Development for Robotics  
3:3:0  
* Prerequisite(s): CS 3370 and University Advanced Standing; CS 4470 recommended  
Teaches students through hands on development the intricacies of programming robots such as autonomous vehicles and/or industrial manufacturing robots. Includes behavior based programming, intelligent agents, low level device drivers, sensor calibration and processing, real time programming requirements, motion planning and navigation, and machine learning. Lab access fee of $35 for computers applies.

CS 479R  
Advanced Current Topics in Computer Science  
1 to 3:0 to 3:0 to 12  
On Sufficient Demand  
* Prerequisite(s): Department Approval and University Advanced Standing  
Provides exposure to emerging technologies and topics of current interest in computer science. Varies each semester depending upon the state of technology. May be repeated for a maximum of 6 credit hours toward graduation without prior written CS Department approval. Lab access fee of $35 for computers applies.

CS 481R  
Internship  
1 to 8:0 to 40  
Fall, Spring, Summer  
* Prerequisite(s): CS 3240, Instructor Approval, and University Advanced Standing  
Provides opportunity to use work experience to add to educational background and academic experience. A maximum of 3 credit hours may be counted towards graduation without prior written CNS Department approval. May be graded credit/no credit.

CS 489R  
Undergraduate Research Project  
2 to 6:2 to 6:0  
* Prerequisite(s): Department approval and University Advanced Standing  
Combines and integrates concepts, methodologies, and skills developed in previous Computer Science course work. Studies the specification, analysis, design, implementation, and completion of a complex and comprehensive project. Requires a project/portfolio using project management techniques. A maximum of 3 hours may be counted towards graduation without prior written Computer Science Department approval. Lab access fee of $35 for computers applies.

CS 491R  
Independent Study  
1 to 6:0 to 18  
* Prerequisite(s): Prior written Department Chair approval and University Advanced Standing  
Offers independent study as directed by a faculty advisor in reading, individual projects, etc. Varies each semester depending upon the state of technology. A maximum of 3 credit hours may be counted towards graduation without prior written Department approval. Lab access fee of $35 for computers applies.

CS 496R  
Senior Seminar  
1 to 3:0 to 3:0 to 12  
* Prerequisite(s): University Advanced Standing  
Presents current state-of-the-art and/or best-practices topics in a seminar format. A maximum of 3 credits will count towards graduation. Lab access fee of $35 for computers applies.

Dance (DANC)  

DANC 1010  
Dance as an Art Form  
3:3:0  
Fall, Spring, Summer  
For students with an interest in multi-cultural dance and movement expression. Studies the different ways in which world cultures are expressed through dance and movement. Overviews dance history and traces the evolution of dance as an art form. Examines the art and craft of dance making, dance as an expression of culture and community. Explores dance as artistic expression in 20th Century America. Includes guest lecturers, demonstration, and studio experiences.

DANC 1100  
Beginning Ballet  
1:0:2  
Fall, Spring  
For all students without previous ballet experience. Emphasizes ballet discipline, develops posture, alignment, and muscular control to improve health and appearance of physical body.

DANC 1160  
Music for Dancers  
1:0:3  
Fall, Spring  
Presents a fundamental approach to the basic elements of music with an emphasis on its relationship to dance. Studies simple and complex rhythmic patterns, rhythmic analysis of select world music styles (African, Eastern European, and American Funk rhythms), vocalizing, instrumentation, score reading, musical structure, and compositional principles. Includes vocal, instrumental, and movement participation; lecture; writing; and discussion.

DANC 1200  
Beginning Modern Dance  
1:0:2  
Fall, Spring  
Gives students experience in modern dance technique, emphasizing locomotor skills and movement expression. Introduces elements of dance, time, space, and energy.

DANC 127R  
Ballet Technique I  
3:1:6.5  
6  
Fall, Spring  
For intermediate level ballet students. Requires ability to handle the varying technical difficulties of classical ballet. Includes theories from Soviet, French, Italian, American, English, and Danish schools. Provides hands-on experience in barre and center floor work to increase strength, flexibility, Emphasizes body alignment and correct placement. Prepares students for a more intensive study in ballet. Does not fulfill a dance major requirement. May be repeated for a total of 18 credits. Course Lab fee of $150 support applies.

DANC 1330  
Studio Workshop--Creative Process in Dance  
1:0:5:1.5  
Not Offered  
A multi-disciplinary approach to the creative process in dance. Overviews the creative process and explores the development of individual artistry and personal voice in dance. Examines how the creative process in other disciplines informs creative work in dance. Includes participation and lecture.
Course Descriptions

DANC 141R
Introduction to Modern Dance Technique and Theory
2:1:3 Fall, Summer
For students desiring to increase their physical skills in dance technique and performance technique. Introduces principles and concepts that govern human movement. Emphasizes development of strength, flexibility, coordination, core support, and movement expressiveness. Includes aspects of composition, improvisation, and performance as they relate to technique. Develops foundational skills in modern dance technique. Prepares students for more intensive study. Does not fulfill a dance major requirement. May be repeated for a total of 6 credits toward graduation.

DANC 143R
Modern Dance Technique and Theory I
3:1:6.5 Fall, Spring, Summer
* Prerequisite(s): Audition
First level modern dance technique for Dance majors. Focuses on development of solid foundational skills in modern dance technique and theory that prepare the student for an intensive major program. Emphasizes the development of strength, flexibility, core support, coordination, kinesthetic awareness and memory, and movement expressiveness. Includes experience in improvisation and composition as a means of understanding and applying technical skills in performance settings. May be repeated for a total of six credits toward graduation. Course Lab fee of $150 support applies.

DANC 144R
Modern Dance Technique and Theory I
3:1:6.5 Spring, Summer
* Prerequisite(s): DANC 143R
First level modern dance technique for Dance majors. Focuses on development of solid foundational skills in modern dance technique and theory that prepare the student for an intensive major program. Emphasizes the development of strength, flexibility, core support, coordination, kinesthetic awareness and memory, and movement expressiveness. Includes experience in improvisation and composition as a means of understanding and applying technical skills in performance settings. May be repeated for a total of six credits toward graduation. Course Lab fee of $150 support applies.

DANC 1520
Folk Dance I
1:0:2 Not Offered
Prepares music, dance steps, and styles of folk dances from different countries. Teaches basic dance formations, positions, and terminology.

DANC 1530
Folk Dance II
1:0:2 Not Offered
* Prerequisite(s): DANC 1520
Acquaints students with intermediate level folk dances from around the world, including steps, styling, music and costumes. Discusses cultural characteristics that are expressed through folk dance.

DANC 1540
Clogging I
1:0:2 Not Offered
Teaches basic steps, styling and history of clogging. Includes dances and freestyle clogging choreography.

DANC 1550
Clogging II
1:0:5:1.5 Not Offered
* Prerequisite(s): DANC 1540 or equivalent experience
Teaches back-style clogging and steps of complex rhythm and structure. Includes upper body movement patterns and emphasizes total body coordination. Examines contemporary and historical trends in clogging.

DANC 1560
African Dance I
1:0 Fall, Spring
Explores traditional movements and rhythms from Central and West Africa and is accompanied by live drumming. Focuses on the development of solid foundational skills in African dance technique. Emphasizes the cultural significance of various dances and rhythms as well as the influences of the African aesthetic in contemporary dance and culture. Includes participation, video, and guest instructors from Africa. Course fee of $50 for support applies.

DANC 1580
Tap Dance I
1:0:2 Not Offered
Introduces basic steps and rhythms of tap dance. Reviews the history of this American theatrical dance form.

DANC 1590
Hip-hop Dance I
1:0:2 Fall, Spring, Summer
Explores a variety of Hip-hop styles and moves to the latest music. Introduces students to fundamental dance techniques. Discusses Hip-hop as a cultural movement.

DANC 1600
Hip-Hop II
1:0:3 Fall, Spring
* Prerequisite(s): Previous Hip-Hop dance experience and Instructor Approval
For all students interested in developing intermediate/ advanced skills in Hip-Hop. Explores Hip-Hop through different styles, across the floor combinations, break dancing, and in-class performances. Broadens the students’ understanding of this fun, loose, upbeat, and energetic style of dance and culture.

DANC 1610
Dance Conditioning
1:0:5:2.5 Fall, Spring
For dance students enrolled in modern dance, ballet, jazz, or ballroom dance classes and for students interested in dance-specific conditioning. A beginning course in dance conditioning. Covers theory and practice. Emphasizes body balancing in strength, flexibility and endurance training supported by knowledge of basic principles of anatomy and biomechanics. Includes stress management, nutrition, body image, somatotypes, and body connectivity work. Course fee of $20 for materials, equipment applies.

DANC 1620
Polynesian Dance I
1:0:3 Fall
Explores basic forms of authentic Polynesian dance with a focus on the dances of Tonga, New Zealand, Tahiti and Hawaii. Teaches the origins of the Polynesian people, their “tapu” systems, culture, religions, musical instruments and legends through movement classes, research, discussion and video. Develops understanding of Polynesian dance and the sacredness of this beautiful art form.

DANC 1700
American Social Dance I
1:0:2 Fall, Spring, Summer
For students with no prior American Social Dance experience. Teaches beginning (Bronze) level patterns of American Social Dance including Foxtrot, Triple Swing, Waltz, and Cha Cha. Emphasizes, on a beginning level, correct rhythm, poise, footwork and foot positions, dance position, and etiquette. Successful completers will have a good general knowledge of Bronze level curriculum. Course fee of $10 for practical experience.

DANC 1710
International Ballroom Dance I
1:0:2 Fall, Spring, Summer
For students seeking ballroom dance experience. Teaches beginning (Bronze) level patterns of International Ballroom Dance including Waltz, Quickstep, and Tango. Introduces correct rhythm, poise, footwork, foot positions, dance position, posture, and leading and following. Successful completers will have a good general knowledge of Bronze level curriculum. Course fee of $10 for practical experience.

DANC 1720
Latin Ballroom Dance I
1:0:2 Fall, Spring, Summer
For students seeking Latin Ballroom Dance experience. Teaches beginning (Bronze) level patterns of International Style Latin Rumba, Samba, and Cha Cha. Introduces correct rhythm, poise, footwork, and foot positions. Successful completers will have a good general knowledge of Bronze level curriculum. Course fee of $10 for practical experience.

DANC 1780
Country Western Dance I
1:0:2 Not Offered
Teaches Western Swing, Line Dances, Texas Two-Step, Cotton Eyed Joe, Schottische, and Heel Toe polka. Stresses rhythm, dance with a partner, and developing a country western dance style. Uses lecture, demonstration, and active class participation.
**Course Descriptions**

**DANC 1790**  
**Country Western Dance II**  
1:0:2  
Not Offered  
*Prerequisite(s): DANC 1780*  
Teaches Pony Swing, East Coast Swing, Waltz, Two-Step, and Line Dances. Stresses rhythm, dance with a partner, and developing a country western dance style. Uses lecture, demonstration, and active class participation.

**DANC 2110**  
**Orientation to Dance**  
3:2:2  
Fall, Summer  
For students interested in pursuing a career in dance. Introduces students to the discipline of dance as an academic as well as artistic field of study. Examines various dimensions of the discipline such as performance, teaching, choreography, dance science/medicine, movement analysis and fundamentals, dance criticism, interdisciplinary collaboration, and current issues. Includes lecture, readings, discussion, writing and participation. Prepares the student entering the Dance emphasis.

**DANC 2211**  
**Character Dance I**  
1:0:3  
Fall, Summer  
*Prerequisite(s): By audition only.*  
Focuses on men's character dance for the professional world. Emphasizes jumps and technical abilities specifically for men. Builds strength and control necessary for further advanced study. Explores the development of musicality and epaulement as it relates to artistic interpretations. Successful completers will be prepared to perform simple men's variations from the classical repertoire. May be repeated for a total of four credit hours.

**DANC 2221**  
**Ballet Technique and Theory II for Men**  
1:0:3  
Fall, Spring  
*Corequisite(s): DANC 227R or DANC 327R*  
Focuses on men's ballet technique and prepares men for ballet majors for the professional world. Emphasizes jumps and technical abilities specifically for men. Builds strength and control necessary for further study. Explores the development of musicality and epaulement as it relates to artistic interpretations. Successful completers will be prepared to perform simple men's variations from the classical repertoire. May be repeated for a total of four credit hours.

**DANC 2250**  
**Character Dance I**  
1:0:3  
Fall  
*Prerequisite(s): Intermediate equivalent skill level to be determined by audition*  
First of a two-semester sequence. Must be taken in sequence. For ballet students at an intermediate or higher skill level. Studies theatre dance based on ethnic styles within ballet performance context.

**DANC 2260**  
**Character Dance II**  
1:0:3  
Not Offered  
*Prerequisite(s): DANC 2250*  
Second of a two-semester sequence course. Must be taken in sequence. For ballet students at an intermediate or higher skill level. Studies theatre dance based on ethnic styles within ballet performance context.

**DANC 227R**  
**Ballet Technique II**  
3:1:6.5  
Fall, Spring, Summer  
*Prerequisite(s): Instructor Approval*  
For advanced level ballet students. Requires ability to handle the varying technical difficulties of classical ballet. Includes theories from Soviet, French, Italian, American, English and Danish schools. Provides hands-on experience in barre and center floor work to increase strength, flexibility and artistic interpretation. Emphasizes body alignment and correct placement. Successful completers should be fully prepared to participate in an upper division classical ballet course. May be repeated for a total of 18 credits. Course Lab fee of $150 for support applies.

**DANC 2330**  
**Improvisation**  
1:0:3  
Spring  
For students interested in experiencing and developing skills in physical inventiveness and performance intuition and immediacy. Provides guided exploration in the elements of dance for the creative development of personal movement vocabulary, spontaneous group interaction, and the ability to recall and give form to movement generated improvisationally.

**DANC 2340**  
**Composition**  
2:1:3  
Fall  
*Prerequisite(s): DANC 2330*  
For students interested in experiencing and developing skills in dance composition. Includes conceptual and practical exploration of the basic elements of dance in both solo and group forms. Investigates the relationship between choreographic intention, movement invention, content, and form/structure. Introduces choreographic devices and forms and encourages experimentation in the choreographic process. Emphasizes the process of creating and giving form to a personal movement vocabulary.

**DANC 2350**  
**Dance and Technology**  
2:1:2  
Spring  
*Prerequisite(s): By Audition*  
*Corequisite(s): DANC 143R, DANC 144R, DANC 243R, or DANC 244R*  
For students with advanced technical, performance, and artistic skills in Modern Dance interested in performing professional choreographic works. Emphasizes study and performance of guest and faculty choreography. introduces students to choreographic approaches of historical and current works. Includes performance in formal and informal concerts. Repeatable for a maximum of three credit hours.

**DANC 2400**  
**Teaching Through Movement in Education**  
2:1:2  
Introduces the philosophy, educational benefits, and teaching methods of dance and movement education for children. Teaches movement as an effective and motivational medium for building self-awareness, expression, and discipline. Develops skills in the psychomotor, affective, and cognitive domains. Places emphasis on learning through problem-solving and on integrative classroom learning. Addresses the Utah State Core Curriculum in Dance for the elementary school.

**DANC 243R**  
**Modern Dance Technique and Theory II**  
3:1:6.5  
Fall  
*Prerequisite(s): by audition*  
Second level modern dance technique for Dance majors. Teaches fundamental body and performance technique. Emphasizes locomotor skills and movement progressions as well as elements of body, effort, shape, space, and time. May be repeated twice for 9 credits toward graduation. Course Lab fee of $150 for support applies.

**DANC 244R**  
**Modern Dance Technique and Theory II**  
3:1:6.5  
Spring  
*Prerequisite(s): DANC 243R*  
Second level modern dance technique for Dance majors. Focuses on development of technical and performance skills in modern dance. Includes concepts of applied anatomy and kinesiology as well as Bartenieff Fundamentals. Emphasizes clarity of movement intent and interpretation in movement progressions. May be repeated twice for 9 credits toward graduation. Course Lab fee of $150 for support applies.

**DANC 247R**  
**Repertory**  
1:0:3  
Fall, Spring  
*Prerequisite(s): By Audition*  
*Corequisite(s): DANC 143R, DANC 144R, DANC 243R, or DANC 244R*  
For students with advanced technical, performance, and artistic skills in Modern Dance interested in performing professional choreographic works. Emphasizes study and performance of guest and faculty choreography. Introduces students to choreographic approaches of historical and current works. Includes performance in formal and informal concerts. Repeatable for a maximum of three credit hours.

**DANC 248R**  
**Special Topics In Dance**  
2:1:2  
Fall, Spring  
Provides students an in-depth exploration of specialized dance forms outside of traditional course offerings, with an emphasis on World Dance forms such as Polynesian, Classical Indian, Argentine Tango, Capoeira, Balinese and Tibetan Folk Dance. Focuses on learning specific dance forms through active participation. Includes integration of theoretical, historical and social concepts which deepen the student's understanding of the context in which the dance form was practiced historically and is practiced today. May be repeated for a total of 6 credits towards graduation.
Course Descriptions

DANC 250R
Advanced Jazz Dance
2:1:3.5  Fall, Spring
* Prerequisite(s): Instructor Approval
Explores advanced level jazz technique, performance and composition skills. Includes preparation for the professional audition through movement experiences, lecture with group discussions, video, guest teacher(s), and group projects. May be repeated for a total of six credit hours.

DANC 2560
African Dance II
1:0:3  Not Offered
* Prerequisite(s): DANC 1560 or previous African Dance experience
Explores dance traditions of West and Central Africa, as well as other countries in the African Diaspora, including Brazil, Cuba, and Haiti. Focuses on strong foundational skills in various African dance styles and emphasizes the cultural and historical significance of the various dances and rhythms. Explores more complex movement and rhythmic structures than African I and challenges the students’ physical stamina. Accompanied by live drumming. Course fee of $50 for support applies.

DANC 265R
Fundamentals of Movement
2:1:2  Fall
* Prerequisite(s): DANC 1200 recommended
For students and community members who want to move with greater ease, efficiency, and sense of connection in the body. Emphasizes body awareness and developmental human movement patterns. Makes application to the areas of dance, sport, theater, somatics, performance, and psychology. Includes Bartenieff Fundamentals and basic principles of Laban Movement Analysis. Develops integrated and harmonious movement patterns in the body. May be repeated for four credits total toward graduation.

DANC 2670
Introduction to Laban Studies
2:1:2  Spring
* Prerequisite(s): DANC 265R
For all dance students and others interested in understanding how the components of movement combine to create functional and expressive movement statements. Introduces the basic principles of Laban Movement Analysis (LMA). Presents a comprehensive system for analyzing the complexity of human movement based on the theories of Rudolph Laban and Immgard Bartenieff. Utilizes physical performance and observation methods. Emphasizes the process of perceiving and making meaning of human movement from a variety of contexts.

DANC 270R
American Social Dance II
1:0:3  Fall, Spring, Summer
* Prerequisite(s): DANC 1700 or equivalent skill level
For students with Bronze level American Social Dance experience or equivalent. Teaches intermediate (Silver) level patterns of American Social Dance including Foxtrot, Waltz, Triple Swing, Viennese Waltz, West Coast Swing, and Cha Cha. Emphasizes, on an intermediate level, correct rhythm, pause, footwork, and foot positions, dance position, alignment, rise and fall, body flight and correct leading and following. Successful completers will have a good general knowledge of Silver level curriculum. May be repeated for a total of two credits toward graduation. Course fee of $20 for practical experience applies.

DANC 271R
International Ballroom Dance II
1:0:3  Fall, Spring, Summer
* Prerequisite(s): Instructor Approval
For students with Bronze level International Ballroom Dance experience. Teaches the intermediate (Silver) level patterns of International Style Waltz, Quickstep, Tango, Foxtrot, and Viennese Waltz. Emphasizes, on an intermediate level, rhythm, pause, footwork, foot positions, dance position, alignment, rise and fall. Body flight and correct leading and following. Successful completers will have a good general knowledge of Silver level curriculum. May be repeated for a total of two credits toward graduation. Course fee of $20 for practical experience applies.

DANC 272R
Latin Ballroom Dance II
1:0:3  Fall, Spring, Summer
* Prerequisite(s): Instructor Approval
For students with Bronze level Latin Ballroom Dance experience or equivalent skill level. Teaches the intermediate (Silver) level patterns of International Style Rumba, Samba, Cha Cha, and Paso Doble. Emphasizes, on an intermediate level, rhythm, pause, footwork, foot positions, dance position, alignment, and correct leading and following. Successful completers will develop a good general knowledge of Silver level curriculum. May be repeated for a total of two credits toward graduation. Course fee of $20 for practical experience applies.

DANC 276R
Ballroom Dance Company Back-Up Team
1:0:3  Fall, Spring, Summer
* Prerequisite(s): By audition only.
For students with or without prior ballroom dance team experience. Teaches American and International techniques as a performance discipline. Includes choreography, performances, demonstrations, competition. Also teaches fundamentals of formation team dancing, stage performance and team competition. Requires individual practice. Prepares dancers for audition to touring team. May be repeated for up to four credits toward graduation. Course fee of $50 for specialized clothing applies.

DANC 281R
Internship in Dance I
1 to 3:0.5:2.5 to 12.5  Fall, Spring, Summer
* Prerequisite(s): Departmental Approval
Provides an opportunity for students to receive college credit and explore career options in dance by working in dance-related fields. Applies academic concepts to actual work experiences. Requires approval of faculty sponsor and completion and acceptance of application. Requires completion of an orientation, completion of Master Agreement between UVU and employer, completion of goals and tasks as required by academic department, and completion of final evaluation. May be repeated for a total of 6 credits towards graduation. May be graded credit/no credit.

DANC 3140
Dance Production and Lighting
2:1:2  Spring
* Prerequisite(s): University Advanced Standing
Introduces essential aspects of dance production. Focuses on theory and practice of lighting for dance. Includes consideration of costuming, set design, sound design, backstage organization, make-up for dance, promotion, and programming. Includes lecture and lab experience.

DANC 3150
Music for Ballet Dancers
2:1:2  Fall
* Prerequisite(s): DANC 1160 and University Advanced Standing
Introduces to aural concepts and sound analysis for dance. Includes chirography, and performance. Course fee of $50 for support applies.

DANC 3160
Dance Accompaniment
2:1:2  Spring
* Prerequisite(s): DANC 1160 and University Advanced Standing
Designed for students interested in musical accompaniment for dance. Builds on knowledge and skills developed in DANC 1160. Explores rhythmic structures and its components in music and dance, composing a percussion score for dance, and building percussion instruments. Emphasizes practical skills in performing simple and complex rhythmic patterns on drum. Includes participation, writing, lecture, and discussion.
DANC 321R
Pointe III
1:0:3 Fall, Spring
* Prerequisite(s): Advanced equivalent skill level to be determined by audition.
* Corequisite(s): DANC 327R

For women dance majors and others with an interest in the professional dance world. Emphasizes points. Builds strength and control. Explores various styles from classical and contemporary repertoire. Women develop successful virtuosity en pointe. Completers will have skills necessary to perform at an advanced technical skill level and have skills necessary to perform variations from classical repertoire. Includes guest teachers. May be repeated for a total of six credits toward graduation. Course Lab fee of $60 for support applies.

DANC 322R
Ballet Technique and Theory III for Men
1:0:3 Fall, Spring
* Corequisite(s): DANC 327R or DANC 427R

Focuses on men's ballet technique and prepares men dance majors for the professional world. Emphasizes jumps and technical abilities specifically for men. Builds strength and control necessary for further study. Explores the development of musicality and epaulement as it relates to artistic interpretations. Successful completers will be prepared to perform men's variations from the classical repertoire. May be repeated for a total of four credit hours.

DANC 327R
Ballet Technique III
3:1:6.5 Fall, Spring
* Prerequisite(s): DANC 227R or Advanced equivalent skill level to be determined by audition

For ballet students at an advanced skill level who are able to handle the varying technical difficulties of classical ballet. Provides hands-on experience in barre and center floor work to increase strength and flexibility. Emphasizes the development of musicality as it relates to artistic interpretations. Successful completers will be prepared to participate on a corp de ballet professional performance level. May be repeated for a total of 18 credits toward graduation. Course Lab fee of $150 for support applies.

DANC 3300
Modern Dance Workshop
2:1:2 Fall
* Prerequisite(s): DANC 2340 and University Advanced Standing

A continuation of DANC 2330 and DANC 2340. Emphasizes the relationship between improvisation and composition in the choreographic process. Focuses on developing fluency in creating and developing content and creating appropriate form for that content. Explores established choreographic forms in both solo and small group settings. Requires some choreographic work outside of class.

DANC 3340
Ballet Choreography
2:1:2 Spring
* Prerequisite(s): DANC 2330, DANC 2340, and University Advanced Standing
* Corequisite(s): DANC 327R, DANC 427R, or DANC 428R and (DANC 321R or DANC 421R)

For dance majors desiring ballet emphasis. Investigates and explores the choreographic process with relationship to narration as well as all choreographic concepts. Includes the creation of student works that give shape and form to ideas based on a specific theme or statements. Examines plot, character, and theme as part of the creative process.

DANC 3350
Choreography
2:1:2 Spring
* Prerequisite(s): DANC 3330 and University Advanced Standing

Provides in-depth experience in the choreographic process. Focuses on development of personal voice in choreography and the ability to generate choreographic form intrinsic to thematic content. Explores the use of choreographic forms and devices as means of developing thematic content. Requires intensive exploration of the creative process through imaginative thinking, creating, and crafting in movement.

DANC 3400
Dance in the Elementary School
2:1:2 Fall, Spring
* Prerequisite(s): University Advanced Standing

Introduces the philosophy, educational benefits, and teaching methods of dance for children. Teaches movement as an effective and motivational medium for building self awareness, expression, and discipline. Develops skills in the psychomotor, affective, and cognitive domains. Places emphasis on learning through problem-solving and on integrative learning. Addresses the Utah State Core Curriculum in Dance for the elementary school. Completion of a second course is required to satisfy the fine arts requirements (see Graduation section of catalog).

DANC 341R
Modern Dance Technique and Theory III
3:1:6.5 Fall
* Prerequisite(s): DANC 341R or by audition

For students interested in building technical, performance and theoretical understanding and skills in modern dance. Expands on the skills and concepts introduced in DANC 341R. Emphasizes body and performance techniques, axial and locomotor skills, total body connectivity movement progressions; increased spatial, rhythmical, and qualitative acuity; risk-taking; and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated up to 9 credits total toward graduation. Course Lab fee of $150 for support applies.

DANC 3420
Dance in the Elementary Schools Practicum
3:2:3 Spring
* Prerequisite(s): DANC 3400 and University Advanced Standing

Builds on the methods, strategies, and dance pedagogy studied in the DANC 3400 Dance in the Elementary Schools course. Focuses on the practicum experience in the elementary schools using the Utah Secondary Dance Core Curriculum.

DANC 342R
Modern Dance Technique and Theory III
1:3:6.5 Spring
* Prerequisite(s): DANC 341R or by audition

For students interested in building technical, performance and theoretical understanding and skills in modern dance. Expands on the skills and concepts introduced in DANC 341R. Emphasizes body and performance techniques, axial and locomotor skills, total body connectivity movement progressions; increased spatial, rhythmical, and qualitative acuity; risk-taking; and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated up to 9 credits total toward graduation. Course Lab fee of $150 for support applies.
DANC 3670 Movement Analysis
3:3:0 Spring
* Prerequisite(s): DANC 265R or equivalent, DANC 2670 or equivalent, and University Advanced Standing

An advanced survey course in movement analysis. Focuses on application of the concepts and theories of Laban Movement Analysis in the context of observing, recording, analyzing, and making meaning from human body movement. Includes in-depth study of motif score writing and applying Body, Effort, Shape and Space Harmony paradigms. Utilizes physical performance and written and verbal observation methods. Examines application to disciplines that concern themselves with human movement behavior such as behavioral sciences, theater, communications, human performance, human development, business, and education.

DANC 3680 Dance Kinesiology
4:4:0 Spring
* Prerequisite(s): (ZOOL 1090 or ZOOL 2320) and University Advanced Standing

Studies the neuromusculoskeletal system in practical application to dance. Analyzes demands placed on the dancer's body and identifies how to maximize efficiency and reduce injuries while maintaining requisite aesthetic elements. Includes lecture and lab experiences.

DANC 370R American Social Dance III
1:0:3 Fall, Spring
* Prerequisite(s): Instructor Approval

For students who have successfully completed Bronze and Silver American Social Dance courses and for members of the Ballroom Tour Team. Teaches the advanced (Gold) level patterns of American Style Foxtrot, Cha Cha, Waltz, Triple Swing, Viennese Waltz, and West Coast Swing. Emphasizes, on an advanced level, correct poise, style, rhythm. Also teaches correct footwork, foot position, alignments, rise and fall, partnering, correct leading and following, and etiquette. First semester successful completers will have a general knowledge of Gold level curriculum. Second semester successful completers will have an in-depth knowledge of Gold level curriculum. May be repeated for two credits toward graduation. Course fee of $30 for practical experience applies.

DANC 371R International Ballroom Dance III
1:0:3 Fall, Spring
* Prerequisite(s): Instructor Approval

For students who have successfully completed Bronze and Silver International Ballroom Dance courses, and for members of the Ballroom Tour Team. Teaches the advanced (Gold) level patterns of International Style Waltz, Quickstep, Tango, Foxtrot, and Viennese Waltz. Emphasizes, on an advanced level, correct poise, style, rhythm. Also teaches correct footwork, foot positions, alignments, rise and fall, partnering, floor craft, and correct leading and following. First semester successful completers will develop a general knowledge of Gold level curriculum. Second semester successful completers will develop an in-depth knowledge of Gold level curriculum. Must be repeated for two credits toward graduation. Course fee of $30 for practical experience applies.

DANC 372R Latin Ballroom Dance III
1:0:3 Fall, Spring
* Prerequisite(s): Instructor Approval

For students who have successfully completed Bronze and Silver Latin Ballroom Dance courses and for members of the Ballroom Tour Team. Teaches the advanced (Gold) level patterns of Latin Style Rumba, Samba, Cha Cha, Paso Doble, and Jive. Emphasizes, on an advanced level, correct poise, style, and rhythm. Also teaches correct footwork, foot position, alignments, rise and fall, partnering, correct leading and following, amounts of turn, Cuban action, and movement principles. First semester successful completers will develop a general knowledge of Gold level curriculum. Second semester successful completers will develop an in-depth knowledge of Gold level curriculum. Must be repeated for two credits toward graduation. Course fee of $30 for practical experience applies.
DANC 3730
American Social Dance Teaching Methods
2:0:2 Spring
* Prerequisite(s): DANC 1700 or equivalent skill level, DANC 270R or equivalent skill level, and University Advanced Standing

For dance majors and other students with an interest in teaching social dance. Focuses primarily on teaching techniques using Bronze level patterns. Emphasizes calling steps. Explores proper music selection and tempo. Includes actual teaching time of peers and a beginning class. Completers should be able to adequately teach social dance in either a formal or informal setting.

DANC 3740
Ballroom Dance Choreography
2:1:2 Spring
* Prerequisite(s): (DANC 270R, DANC 271R, DANC 272R, or Instructor Approval) and University Advanced Standing

Investigates and explores the choreographic process with reference to choreographic concepts. Involves the creation of dance skills that give shape and form to ideas based on a specific theme, style, or statement. Includes Latin, International Ballroom, American Rhythm and Smooth, and Cabaret styles. Explores formation team competition, solo couple competition, formation team stage performance, and solo couple stage performance as part of the creative process.

DANC 3750
Studies in Ballroom Dance Styles
2:2:0 Fall
* Prerequisite(s): ENGL 1010 and University Advanced Standing

Investigates and explores historical ballroom dance styles. Emphasizes the social and cultural context in which ballroom dance is created and performed. Includes career, life style, education, gender, moral and ethical concerns related to ballroom dance issues. Also covers ballroom dance history, evolution, and current trends. Identifies similarities and differences between ballroom dance and other dance forms. Involves discussion, lecture, research, student presentations and participation.

DANC 376R
Ballroom Dance Company Back-up Tour Team
2:0:6 Fall, Spring
* Prerequisite(s): Audition

For students with advanced ballroom dance experience. Teaches American, International Ballroom, and Latin techniques using intermediate and advanced choreography in performance and competitive discipline. Includes choreography, stage performances, competitions, and demonstrations with increased emphasis on dance technique and proper execution of formations. Requires individual practice. Prepares dancers for audition to touring team. May be repeated for eight credits toward graduation. Course fee of $50 for specialized clothing and materials applies.

DANC 421R
Pointe IV
1:0:3 Fall, Spring
* Prerequisite(s): Advanced equivalent skill level to be determined by audition
* Corequisite(s): DANC 427R

For women dance majors and other students with an interest in the professional dance world. Emphasizes pointe. Continues to build strength and control through increased complex combinations. Explores advanced levels of styles from classical and contemporary repertoire. Develops virtuosity en pointe. Completers will have skills necessary to perform at a professional technical skill level. Includes guest teachers. May be repeated for a total of six credits toward graduation. Course Lab fee of $60 for support applies.

DANC 422R
Ballet Technique for Men
1:0:3 Fall, Spring
* Prerequisite(s): Intermediate/Advanced equivalent skill level to be determined by audition
* Corequisite(s): DANC 227R or DANC 327R or DANC 427R

Focuses primarily on teaching techniques using Bronze level patterns. Emphasizes jumps, turns and other technical abilities specifically for men. Builds strength and control necessary for performing male variation, particularly from the classical ballet repertoire. Explores the development of musicality as it relates to artistic interpretations. May be repeated for a total of eight credit hours.

DANC 423R
Pointe V
1:0:3 Fall, Spring
* Prerequisite(s): DANC 321R or to be determined by audition
* Corequisite(s): DANC 427R or DANC 428R

For women dance majors and other students with an interest in the professional dance world. Emphasizes pointe. In-depth study of styles from classical and contemporary repertoire. Women develop successful virtuosity en pointe. Completers will have skills necessary to perform at an professional technical and artistic skill level and have the advanced experience necessary to pursue a professional career in Dance. Includes guest teachers. May be repeated for a total of six credits toward graduation. Course Lab fee of $60 for support applies.

DANC 424R
Pas de deux
1:0:2 Fall, Spring
* Prerequisite(s): (DANC 321R or DANC 327R) and (DANC 421R or DANC 427R or DANC 428R); advanced equivalent skill level to be determined by audition
* Corequisite(s): DANC 427R or DANC 428R and (DANC 421R or DANC 423R)

For dance majors and other students with an interest in developing their advanced level technique. Emphasizes work as pairs through tradition styling and classical technique. Explores various pas de deux from classical through contemporary repertoire. Includes master guest teachers and study of traditional classical pas de deux choreography. Teaches skills necessary to perform pas de deux from classical repertoire. May be repeated for a total of four credits toward graduation.

DANC 425R
Repertory Ballet Ensemble
3:0:9 Fall, Spring
* Prerequisite(s): Audition required
* Corequisite(s): DANC 327R or DANC 427R

For serious ballet students showing a high level of talent and technical achievement. Explores the development of artistic interpretation as students learn styles of various repertoire works. Prepares students to perform as a competent corps de ballet member. May be repeated for a maximum of 9 credits toward graduation. Course fee of $50 for specialized clothing applies.

DANC 4260
Ballet Pedagogy
3:2:2 Fall
* Prerequisite(s): DANC 3150 and University Advanced Standing

Focuses primarily on teaching techniques using Bronze level patterns. Emphasizes the development of musicality as it relates to artistic interpretations. May be repeated for a total of eight credit hours.

DANC 427R
Ballet Technique IV
3:1:6.5 Fall, Spring
* Prerequisite(s): DANC 327R or advanced equivalent skill level to be determined by audition
* Corequisite(s): DANC 421R

For ballet students at an advanced skill level who are able to handle the varying technical difficulties of classical ballet. Provides experience in barre and center floor work to increase strength and flexibility. Emphasizes the development of musicality as it relates to artistic interpretations. Successful completers will be prepared to participate on a corp de ballet professional performance level. May be repeated for a total of 18 credits toward graduation. Course Lab fee of $150 for support applies.

DANC 428R
Ballet Technique V
3:1:6.5 Fall, Spring
* Prerequisite(s): DANC 427R or advanced equivalent skill level to be determined by audition
* Corequisite(s): DANC 421R or DANC 423R

For ballet students who successfully audition for Utah Regional Ballet Company at an advanced skill level and artistic skill level who are prepared for the technical difficulties required at a professional level. Provides hands-on experience in barre and center floor work to fully develop the professional artist. Successful completers will be prepared to participate on a professional performance level. May be repeated for a total of 24 credits toward graduation. Course Lab fee of $150 for support applies.
**Course Descriptions**

**DANC 429R**  
Utah Regional Ballet Repertory  
3:0:9  Fall, Spring  
* Prerequisite(s): Advanced/Professional Skill level; determined by audition  
* Corequisite(s): DANC 421R, DANC 423R or DANC 427R, DANC 428R  
For serious ballet students showing a high level of talent and technical achievement. Explores the development of artistic interpretation as students learn styles of various repertoire works. Completers should be qualified to perform as a competent corps de ballet member. May be repeated for a maximum of 9 credits toward graduation. Course fee of $50 for specialized clothing applies.

**DANC 4350**  
Senior Capstone I  
1:1:0  Fall  
* Prerequisite(s): DANC 3140 and DANC 3340 or DANC 3350, and University Advanced Standing  
The first of two courses designed to prepare senior dance majors with the skills, resources, and portfolio marketing materials needed to apply for graduate work or professional opportunities in dance. Emphasizes portfolio development and biographical writing, personal web page creation, audition and interview strategies, and dance resources. Includes writing, performance, research, and multimedia work.

**DANC 4360**  
Senior Capstone II  
2:2:0  Spring  
* Prerequisite(s): DANC 3140 and DANC 4350 and (DANC 3340 or DANC 3350 or DANC 3740 with a B- or higher) and University Advanced Standing  
Designed for senior dance students as the second course in a capstone sequence. Emphasizes through choreography, performance, and production a synthesis of the knowledge and skills developed in the B.F.A. degree in Dance. Includes writing, collaborative work, discussion, lecture, and intensive studio preparation of choreography.

**DANC 441R**  
Modern Dance Technique and Theory IV  
3:1:6.5  Fall  
* Prerequisite(s): By audition  
An advanced level course for focused students interested in building technical, performance, and theoretical understanding and skills in modern dance. Emphasizes body and performance techniques, axial and locomotor skills, total body connectivity, movement progressions, increased spacial, rhythmical and qualitative acuity, risk-taking, and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated for up to 9 credits total toward graduation. Course Lab fee of $150 for support applies.

**DANC 442R**  
Modern Dance Technique and Theory IV  
3:1:6.5  Spring  
* Prerequisite(s): DANC 441R or by audition  
A capstone technique course for students interested in rigorous technical, performance, and theoretical training. Emphasizes advanced performance sequences and progressions that utilize technical, kinesthetic, and expressive skills. Includes challenging spacial, rhythmical, and qualitative performance skills, risk-taking, and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated for up to 9 credits total toward graduation. Course Lab fee of $150 for support applies.

**DANC 4430**  
Dance Teaching Practicum  
3:2:3  Spring  
* Prerequisite(s): DANC 3450 and University Advanced Standing  
For secondary dance licensure majors or dance majors interested in dance pedagogy. Builds on the methodologies, strategies, ideologies and philosophies of dance pedagogy studied in DNCE 3430. Emphasizes lesson plan and unit development, instruction, and assessment based on the National and Utah State Dance Standards. Focuses on the integration of theory and practice during a practicum experience in the secondary public schools setting. Includes writing, reading, discussion, and participation.

**DANC 446R**  
Contemporary Dance Ensemble  
3:0:9  Fall, Spring  
* Prerequisite(s): By audition  
* Corequisite(s): DANC 431R or DANC 432R or DANC 441R or DANC 442R  
Designed for students with advanced technical, performance, and artistic skills. Provides students interested in further developing their artistry with opportunities to perform the works of professional choreographers in formal and informal settings. Explores a variety of contemporary and historical choreographic approaches. Prepares students for work in a professional modern dance company. May be repeated for a maximum of 9 credits toward graduation. Course Lab fee of $75 for practical experience applies.

**DANC 471R**  
International Ballroom Dance IV  
2:1:2  Fall, Spring  
* Prerequisite(s): Instructor Approval  
For students who have successfully completed Bronze, Silver and Gold International Ballroom Dance classes and for members of the Ballroom Tour Team. Prepares students to dance, choreograph and compete on a championship amateur level. Teaches the Advanced (Gold-Bar) level patterns of International style Waltz, Quickstep, Tango, Foxtrot, and Viennese Waltz. Emphasizes, on a pre-professional level, correct poise, style, and rhythm. Also teaches and enhances correct footwork, foot positions, alignments, rise and fall, partnering, floor craft, body flight, precesses and follows, and correct leading and following. First semester successful completers will develop a general knowledge of Gold-Bar level curriculum. Second semester successful completers will develop an in-depth knowledge of Gold-Bar level curriculum. Must be repeated for 4 credits toward graduation. Course fee of $30 for practical experience applies.

**DANC 472R**  
Latin Ballroom Dance IV  
2:1:2  Fall, Spring  
* Prerequisite(s): Instructor Approval  
For students who have successfully completed Bronze, Silver and Gold International Ballroom Dance classes and for members of the Ballroom Tour Team. Prepares students to dance, choreograph and compete on a championship amateur level. Teaches the Advanced (Gold-Bar) level patterns of Latin style Rumba, Samba, Cha Cha, Paso Doble, and Jive. Emphasizes, on a pre-professional level, correct poise, style, and rhythm. Also teaches and enhances correct footwork, foot positions, Cuban action, alignments, rise and fall, partnering, floor craft, precesses and follows, and correct leading and following. First semester successful completers will develop a general knowledge of Gold-Bar level curriculum. Second semester successful completers will develop an in-depth knowledge of Gold-Bar level curriculum. Must be repeated for 4 credits toward graduation. Course fee of $30 for practical experience applies.

**DANC 4740**  
International Ballroom Dance Teaching Methods  
3:3:0  Fall  
* Prerequisite(s): DANC 371R, DANC 3730, and University Advanced Standing  
Covers technical and theoretical aspects of all basic figures in Waltz, Foxtrot, Quickstep, and Tango such as footwork, moves, amount of turn and rhythm. Emphasizes correct teaching methods associated with each dance. Prepares students to obtain membership in the Imperial Society of Teachers of Ballroom Dance and to teach professionally.

**DANC 4750**  
Latin Ballroom Dance Teaching Methods  
3:3:0  Fall  
* Prerequisite(s): DANC 372R, DANC 3730, and University Advanced Standing  
Covers technical and theoretical aspects of all basic figures in Rumba, Samba, Paso Doble, Jive and Cha Cha. Focuses on areas such as Footwork, Rhythm, and Leads and Follows. Emphasizes correct teaching methods associated with each dance. Prepares students to obtain membership in the Imperial Society of Teachers of Ballroom Dance and to teach professionally.
DENT 1010 Dental Hygiene I 2:0:0 Fall
* Prerequisite(s): Acceptance into Dental Hygiene program
* Corequisite(s): DENT 1015
For students accepted into the Dental Hygiene Program. Introduces basic principles and skills used in the practice of dental hygiene, including infection control, patient assessment and treatment. Skills are practiced in a preclinical setting on dental mannequins and student patients; all skills are taught to clinical competence. Builds on basic and dental sciences and is foundational for the ensuing Dental Hygiene II, III, and IV courses. Course fee of $3175 for practical experience applies.

**DENT 1015 Dental Hygiene I Preclinical lab 2:0:0 Fall**
* Prerequisite(s): Acceptance into Dental Hygiene program
* Corequisite(s): DENT 1010
For students accepted into the Dental Hygiene Program. Introduces basic principles and skills used in the practice of dental hygiene, including infection control, patient assessment and treatment. Skills are practiced in a preclinical setting on dental mannequins and student patients; all skills are taught to clinical competence. Builds on basic and dental sciences and prepares for clinical dental hygiene practice on community patients. Course Lab fee of $73 applies.

DENT 1020 Oral Anatomy and Physiology 4:3:3 Fall
* Prerequisite(s): Departmental permission required
For students accepted into the Dental Hygiene Program. Focuses on study of the normal development, structure, and function of the orofacial region. Provides microscopic and macroscopic study of oral structures in a laboratory setting. Builds on basic sciences and prepares for the study of the dental sciences and clinical dental hygiene.

**DENT 1030 Dental Materials 2:1:3 Fall**
* Prerequisite(s): Departmental permission required
Presents the history, composition, chemical, and physical properties and use of materials commonly utilized in the dental laboratory and dental operator. Builds on dental sciences. Provides laboratory experience in performing common dental laboratory procedures and prepares for the clinical practice of expanded functions; all skills are taught to laboratory competence. Course Lab fee of $75 applies.

DENT 1040 Dental Hygiene II 3:3:0 Spring
* Prerequisite(s): Acceptance into Dental Hygiene program
* Corequisite(s): DENT 1045

**DENT 1045 Dental Hygiene II Clinical 3:0:9 Spring**
* Prerequisite(s): Acceptance into Dental Hygiene program
* Corequisite(s): DENT 1040
Provides for developing clinical dental hygiene skills, practiced on patients in a clinical setting, including oral health education, practice management, patient assessment and treatment. Emphasizes treatment planning and emergency preparedness. All skills are taught to clinical competence. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. Course Lab fee of $85 applies.

**DENT 1050 Clinical Dental Radiography 1:1:0 Spring**
* Prerequisite(s): Acceptance in Dental Hygiene program
* Corequisite(s): DENT 1055
Focuses on radiation physics, biology, protection, quality, dental techniques, film processing and mounting, interpretation of errors, recognition of anatomical landmarks, and evidence of pathologies. This is then applied in the corequisite radiology lab course. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

**DENT 1055 Clinical Dental Radiography Lab 1:0:3 Spring**
* Prerequisite(s): Acceptance into Dental Hygiene program
* Corequisite(s): DENT 1050
Focuses on clinical application of radiation physics, biology, protection, quality, dental techniques, film processing and mounting, interpretation of errors, recognition of anatomical landmarks, and evidence of pathologies. Practices skills on radiographic mannequins in a laboratory setting; all skills are taught to clinical competence. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. Course Lab fee of $74 applies.

**DENT 1060 General and Oral Pathology 3:3:0 Spring**
* Prerequisite(s): Departmental permission required
Focuses on the study of commonly encountered systemic and oral diseases; etiology, presentation, treatment and effect on dental treatment, including associated emergency procedures. Emphasizes the principles of inflammation, immunology, healing, and repair. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.
Course Descriptions

DENT 2020
Dental Pharmacology
3:3:0 Fall
* Prerequisite(s): Departmental permission required
Focuses on pharmacology as it affects the clinical practice of dentistry. Emphasizes drugs commonly used in dentistry, for treatment of common systemic and oral diseases, and for emergency treatment: effects, administration, and toxicology. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 2060
Community Dental Hygiene
3:2:3 Spring
* Prerequisite(s): Departmental permission required
Examines the principles of community health, including assessment, planning, implementation, and evaluation of health care, with an emphasis on oral health. Builds on knowledge of ethics, basic and dental sciences, and clinical dental hygiene practice. Provides the knowledge and skills necessary to function in a community health setting and includes learning experiences in community health agencies.

DENT 3010
Dental Hygiene III
2:2:0 Fall
* Prerequisite(s): Acceptance into Dental Hygiene program and University Advanced Standing
* Corequisite(s): DENT 3015
Focuses on pain control to include local and topical oral anesthesia, nitrous oxide conscious sedation and other means of pain control that will be taught to the accepted standard of care. Requires application of knowledge gained from this course to direct clinical application on their patients in the clinical setting. Builds on basic and dental sciences and prepares the student for clinical dental hygiene practice and will also prepare the student for their local anesthesia boards exams. Course fee of $3175 for practical experience applies.

DENT 3015
Dental Hygiene III Clinical
4:0:12 Fall
* Prerequisite(s): Acceptance into Dental Hygiene program and University Advanced Standing
* Corequisite(s): DENT 3010
Introduces skills involving oral anesthesia (pain control) and supportive periodontal treatment. Utilizes advanced skills of dental hygiene practice, including assessment and treatment on patients of all ages in a clinical setting, with emphasis on planning and comprehensive treatment. Requires demonstration of clinical competence unless otherwise noted in the course outline. Includes more rigorous skill and patient difficulty levels than the first year clinical experiences. Builds on basic and dental sciences and foundational skills to include DENT3010, and prepares the student for clinical dental hygiene practice. Course Lab fee of $63 applies.

DENT 3020
Periodontology
3:3:0 Fall
* Prerequisite(s): Departmental permission required and University Advanced Standing
Focuses on the study of the healthy periodontal tissues, and the factors, recognition, and classes of periodontal disease. Provides background knowledge of nonsurgical and surgical treatment of periodontal disease. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 3040
Dental Hygiene IV
2:2:0 Spring
* Prerequisite(s): Acceptance into Dental Hygiene program and University Advanced Standing
* Corequisite(s): DENT 3045
Provides comprehensive didactic experience in all phases of dental hygiene practice for patients, regardless of special needs. Introduces nutritional and tobacco cessation counseling. Builds on basic and dental sciences and prepares for various practice settings in clinical dental hygiene. Course fee of $3175 for practical experience applies.

DENT 3045
Dental Hygiene IV Clinical
4:0:12 Spring
* Prerequisite(s): Acceptance into Dental Hygiene program and University Advanced Standing
* Corequisite(s): DENT 3040
Provides comprehensive clinical experience in all phases of dental hygiene practice for patients, to include special needs. Course teaches to clinical competence. Introduces nutritional and tobacco cessation counseling. Builds on basic and dental sciences and prepares for various practice settings in clinical dental hygiene. Course Lab fee of $63 applies.

DENT 3050
Dental Hygiene Seminar
1:1:0 Spring
* Prerequisite(s): Departmental permission and University Advanced Standing
Explores topics relevant to contemporary practice of dental hygiene, including their professional roles, career and stress management, ethical and legal aspects, and the role of the dental hygienist in the dental specialty practices. Builds on clinical practice and prepares for entry into the many aspects of the profession of dental hygiene. Includes observation of various dental specialty practices.

DENT 3060
Advanced Dental Hygiene Public Health
3:2:3 Fall
* Prerequisite(s): Admission to the BS Dental Hygiene and University Advanced Standing
Examines current and future issues in oral public health. Examines barriers and solutions to health concerns. Teaches students to produce a program or process to address an issue. May be delivered online.

DENT 3100
Office and Private Practice for the Dental Hygienist
3:3:0 Fall
* Prerequisite(s): 2 year hygiene degree, departmental approval, and University Advanced Standing
Expands beyond the dental hygiene basics taught in hygiene school. Addresses topics in dental hygiene practice that will help the clinical dental hygienist become more proficient in their field and a leader in dental hygiene. Studies practice management issues, productivity, salary enhancement, cutting edge technology, dental insurance, salaries and benefits, team work, patients and money considerations, and other challenges faced in the dental hygiene profession. May be delivered online.

DENT 3200
Teaching the Dental Hygiene Patient
2:2:0 Fall
* Prerequisite(s): Admission to the BS Dental Hygiene and University Advanced Standing
Addresses areas such as learning theories, teaching strategies, societal-cultural considerations, and evaluation and applies them specifically to the needs of the dental hygienist when teaching his/her patients and the community at large. May be delivered online.

DENT 360G
Intercultural Dental Education
3:3:0 Not Offered
* Prerequisite(s): Admission to the BS Dental Hygiene and University Advanced Standing
* Prerequisite(s) or Corequisite(s): DENT 4200
Reviews teaching and learning theories as students design a culturally appropriate oral hygiene curriculum to meet a required need in a community setting, elementary school, civic group or at an international university. Includes concepts of community health such as: needs assessment/survey; analysis/diagnosis; project planning (curriculum planning); implementation and evaluation. Covers topics dealing with cultural sensitivity and diversity education. Provides students the option to either implement their oral hygiene education program on site (in country) or conduct a pilot program (trial run) locally if travel is not an option.

DENT 4010
Cutting Edge Seminar
1:1:0 Not Offered
* Prerequisite(s): Admission to the BS Dental Hygiene and University Advanced Standing
This seminar discusses and exposes the students to the latest in technology, information, discoveries, protocols and procedures in the field of dental hygiene. Guest speakers in the field will be an important part of the seminar.

DENT 406G
Global Community Health Project
3:3:0 Not Offered
* Prerequisite(s): Admission to the BS Dental Hygiene and University Advanced Standing
Addresses the complexities inherent in global and/or intercultural oral health and the community health theories and strategies used to address these concerns. Includes the planning and execution of a two-week oral health education or promotion project in either another country or among another culture (e.g., Native American reservation in Utah or Ghana, West Africa).
DENT 4200
Teaching the Dental Hygiene Student 3:3:0 Spring
* Prerequisite(s): DENT 3200, DENT 3060, and University Advanced Standing

Prepares the dental hygienist to become a successful dental hygiene educator in a dental hygiene program by addressing areas such as: learning theories, teaching strategies, learning objectives, lesson plans, syllabi, curriculum design evaluation tools, and roles of an educator. May be delivered online.

DENT 4300
Dental Hygiene Capstone 1:1:0 Spring
* Prerequisite(s): Admission to the BS Dental Hygiene and University Advanced Standing

Requires the student to integrate several main areas of study in the BS program and create a paper or project that reflects comprehensive knowledge and ability to reflect, connect and then produce a work based on their learning experiences throughout the BS program. May be delivered online.

DENT 481R
Internship in Dental Hygiene 1 to 4:0:5:1.5 to 10.5 Fall
* Prerequisite(s): Admission to the BS Dental Hygiene and University Advanced Standing

Refers to and utilizes the student's current private practice situation as a practicing dental hygienist to further apply and develop their skills and knowledge. Requires the student to keep a reflective journal and produce a paper relating to his/her experience. May be repeated for up to 8 hours with only 4 credits applying toward the BS Dental Hygiene. May be graded credit/no credit. May be delivered online.

DENT 489R
Undergraduate Research in Dental Hygiene 3:0:9 On Sufficient Demand
* Prerequisite(s): Departmental Approval and University Advanced Standing

Provides students with the opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in their prior major courses. Students will create a significant intellectual or creative product that is characteristic of the dental hygiene discipline and worthy of communication to an audience. May be repeated for a maximum of 6 credits toward graduation.

DENT 490R
Special Topics in Dental Hygiene 3:3:0 Spring
* Prerequisite(s): Acceptance into BS in Dental Hygiene program and University Advanced Standing

Explores and examines special topics in Dental Hygiene. Focuses on special topics of current and future relevance to the profession of dental hygiene including societal, economic, and cultural impacts of topics. Allows dental hygiene students an opportunity to investigate special dental hygiene topics in an in-depth manner and allows the student some flexibility in selecting certain topics of particular importance or interest to them. Topics are subject to change from year to year. May be repeated for a maximum of 6 credits toward graduation. May be delivered online.

Digital Media (DGM)

DGM 1061
Motion Picture Editing 3:1:3 Fall, Spring
Introduces interface, fundamental set of tools, techniques and operations of Non-Linear Editing. Provides experience with basic editing functions, post production workflow and exporting a finished project for various distribution channels. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 1062
Animation for the Internet 2:1:3 On Sufficient Demand
Introduces the interface, tool set, tweening techniques, and operations of an animation software package for online use. Requires creation of an interactive project with sound, video, and motion. Introduces basic scripting. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 1063
Image Editing 2:1:3 Fall, Spring
Introduces students to the interface, fundamental set of tools, techniques and operations of Photoshop. Requires creation and modification of digital images. Software fee of $15 applies. Lab access fee of $35 applies.

DGM 1110
Digital Media Essentials I 4:4:0 Fall, Spring
Beginning course designed to give students an in-depth introduction and well-grounded understanding of the digital media world of thinking, opportunities in the field, various tools, and introduction to development techniques. Topics include: audience assessment, digital imaging, compression algorithms, ethical dilemmas, message design through text, audio, images, animation, and digital video. May be delivered online. Software fee of $15 applies. Lab access fee of $35 applies.

DGM 1110
Digital Media Essentials I 4:0:4 Fall, Spring, Summer
Beginning course designed to give students an in-depth introduction and well-grounded understanding of the digital media world of thinking, opportunities in the field, various tools, and introduction to development techniques. Topics include: audience assessment, digital imaging, compression algorithms, ethical dilemmas, message design through text, audio, images, animation, and digital video. May be delivered online. Software fee of $15 applies. Lab access fee of $35 applies.

DGM 1510
Film Production Analysis 3:1:6 Fall
Film Production Analysis is a foundation class for those interested in the digital media and motion picture business. Analyzes the various technologies and production techniques that make up motion picture communication. Involves viewing a motion picture each week of class and analyzing how the producer and director incorporated production and structural techniques to produce a compelling story. Covers the eight sequence structural elements of motion picture storytelling, how each crew member of the production team contributes to the overall impact, how scripting is used to direct the team to create a strong cinematic effect, and how the three act eight sequence structure guides the entire team through the pre-production, production and post-production processes. Software fee of $15 applies. Course fee of $15 applies. Lab access fee of $35 applies.

DGM 1520
Corporate and Documentary Production 3:3:0
Introduces professional video production techniques used in documentaries and corporate video. Covers production processes such as working with corporations, scripting, camera techniques, basic lighting techniques, production management and basic non-linear editing techniques. Requires participation in a high-quality semester project that will take a corporate or documentary project through the entire pre-production, production and post-production process. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 1600
Introduction to Scripting 3:3:0
Introduces students to the fundamentals of computer programming and problem solving using the current industry standard scripting languages. Emphasizes the fundamentals of structured and object-oriented programming, syntax, semantics, control structures, arrays, file I/O, testing/debugging, implementation, and the construction of graphical user interfaces. Applies these concepts to manipulate digital images, sound, movies, text, and web pages that are heavily used as digital media. Software fee of $15 applies. Lab access fee of $35 applies.

DGM 1620
Survey of Animation 3:2:3 Fall, Spring
Introduces animation principles and studio processes used in the contemporary animation industry. Emphasizes the synthesis of technology and aesthetics in the production of an animated title. Includes an introduction to animation milestones and personalities. $35 course fee for computers applies.

DGM 210R
Special Topics in Digital Media 1 to 4:0:4 to 12 On Sufficient Demand
Designed for students interested in specific digital media tools and concepts. Includes relevant and changing topics and tools used in production. Emphasizes hands-on experience along with lectures and demonstrations. This class may be taken for a total of nine credits, but curriculum may vary from one semester to another. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 2110
Digital Motion Picture Essentials 3:2:2 Fall, Spring, Summer
* Prerequisite(s): DGM 1110
Presents professional digital film production techniques used in feature films, documentaries and corporate video. Covers production processes such as story structure and script development, camera techniques, basic lighting techniques, production management and basic non-linear editing techniques. Addresses problem solving issues related to pre-production, production and post-production. Each student will participate in a high-quality semester project that will take a story through the entire digital film pre-production, production and post-production process. Course fee of $10 for equipment applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGM 2120</td>
<td>Web Essentials</td>
<td>Fall, Spring, Summer</td>
<td>* Prerequisite(s): DGM 1110. For AVC majors: ART 1400, ART 1420.</td>
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<tr>
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<td>Designed to provide students with the fundamentals necessary to plan, design, develop, deploy, and critique a web site which includes images, sound, video, forms, and separates content from presentation. Requires students to demonstrate the fundamentals of web programming languages including XHTML, CSS, and JavaScript. Examines various ways to build an accessible web page. Uses collaborative document sharing as they work in a group to research and present on server technologies. Culminates in a final project in which students will design and deploy a working site. May be delivered hybrid and/or online. Software fee of $15 applies. Lab access fee of $35 for computers applies.</td>
</tr>
<tr>
<td>DGM 2130</td>
<td>Digital Audio Essentials</td>
<td>3:2:3</td>
<td>Fall, Spring, Summer</td>
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<td>Reviews basic sound principles, cable types, microphone types and basic techniques of use. Teaches recording of basic sounds and musical instruments into a Digital Audio Workstation. Introduces multi-track audio, editing, EQing, mixing and mastering a 3-minute piece with voice and music. Includes a final project consisting of a multi-track music project designed for use in film, commercial radio, or other multimedia applications. Software fee of $15 applies. Lab access fee of $35 for computers applies.</td>
</tr>
<tr>
<td>DGM 2140</td>
<td>Electronics for Media</td>
<td>3:2:3</td>
<td>Fall</td>
</tr>
<tr>
<td>DGM 220R</td>
<td>Special Topics in Digital Design</td>
<td>1 to 4:0 to 4:0 to 12</td>
<td>On Sufficient Demand</td>
</tr>
<tr>
<td>DGM 2210</td>
<td>3D Modeling and Animation Essentials</td>
<td>4:3:3</td>
<td>Fall, Spring, Summer</td>
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<td>Addresses the basics of 3D modeling, rigging, texturing, animation, and rendering. Demonstrates how to utilize these techniques in a production pipeline for games and animation. Includes basic techniques and theories used in a 3D animation pipeline. May be delivered online. Software fee of $15 applies. Course fee of $19 for equipment applies. Lab access fee of $35 for computers applies.</td>
</tr>
<tr>
<td>DGM 2211</td>
<td>Rigging and Animation Essentials</td>
<td>3:3:0</td>
<td>* Prerequisite(s): DGM 1620 with a grade of B or higher, and DGM 2210</td>
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<td>Introduces fundamental rigging for a typical 3D character, and simple 3D performance motion for animated films and games. Software fee of $15 applies. Lab access fee of $35 applies.</td>
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<tr>
<td>DGM 2221</td>
<td>Game Essentials</td>
<td>3:3:0</td>
<td>* Prerequisite(s): DGM 1620 with a B or higher</td>
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<tr>
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<td>Provides a foundation for basic game development pipeline. Covers low poly count modeling in a variety of software packages and use of 3D models in an industry-standard game development engine. Software fee of $15 applies. Lab access fee of $35 applies.</td>
</tr>
<tr>
<td>DGM 2240</td>
<td>Interaction Design</td>
<td>3:3:0</td>
<td>* Prerequisite(s): DGM 1110 or CS 1400 or INFO 1200.</td>
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<td>* Prerequisite(s) or Corequisite(s): For AVC majors: ART 1400, ART 1420.</td>
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<td>Focuses on strategies and principles used in digital media development to enhance the user experience. Teaches how to understand stakeholder goals, identify and specify user needs and requirements through user research and design documentation, engage in interactions with target audiences through interviews, observation, and discussion, as well as create and test prototypes. This course is highly project based and deals with solving real-world problems faced by consumers using products in the market. Software fee of $15 applies. Lab access fee of $35 applies.</td>
</tr>
<tr>
<td>DGM 2250</td>
<td>Principles of Digital Design</td>
<td>3:3:0</td>
<td>* Prerequisite(s): DGM 1110</td>
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<td>Teaches principles of visual design, how to properly create engaging interfaces for digital media, and practice good integration with industry development tools. Addresses the complexity of designing rich media experiences around digital devices ranging from computer screens to personal information devices. May be delivered online. Software fee of $15 applies. Lab access fee of $35 for computers applies.</td>
</tr>
<tr>
<td>DGM 2270</td>
<td>Digital Publishing I</td>
<td>3:3:0</td>
<td>* Prerequisite(s): DGM 2120</td>
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<td>Focuses on the development of engaging mobile apps for distribution on a myriad of devices. Teaches the fundamental building blocks of publishing digital media experiences of all types and may include interactive guide, catalogs, brochures, training manuals, kiosks, and exhibits. Such apps will be developed for touchscreen ‘native’ content and feature real-time updates. *Laptop &amp; Device Required. May be delivered online. Software fee of $15 applies. Lab access fee of $35 for computers applies.</td>
</tr>
<tr>
<td>DGM 2271</td>
<td>Digital Media Design I</td>
<td>3:3:0</td>
<td>* Prerequisite(s): DGM 2120</td>
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<td>Focuses on the application of media technologies that possess the ability to create rich immersive experiences for distribution on optical media such as CD, DVD-ROM, and over the Internet. Introduces participants to a variety of authoring systems and development techniques when creating Digital Media experiences. *Laptop Required. May be delivered online. Software fee of $15 applies. Lab course fee of $18 applies. Lab access fee of $35 for computers applies.</td>
</tr>
<tr>
<td>DGM 2280</td>
<td>Digital Effects I</td>
<td>3:3:0</td>
<td>* Prerequisite(s): DGM 1110</td>
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<td>Focuses on the use of digital visual effects in mobile publishing environments. Subjects include but are not limited to multi-layer effects in known mobile layouts, creation of digital mattes and parallax for unique visual user engagement, as well as integration techniques according to development platforms. Tools may include After Effects, Motion, and Hype. Software fee of $15 applies. Lab access fee of $35 for computers applies.</td>
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DGM 230R
Special Topics in Digital Graphics
1 to 4:0 to 4:0 to 12  On Sufficient Demand
Designed for students interested in specific graphic tools and concepts currently used in digital media production. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. This class may be taken for a total of nine credits, but curriculum may vary from one semester to another. Course fee of $10 for materials applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 2320
Digital Photography and Compositing I
3:3:0  Fall, Spring

DGM 2340
Digital Output for Film
3:2:2  Spring
* Prerequisite(s): DGM 2540 or instructor approval
Focuses on the digital workflow management of digital still and cinema camera assets. Addresses codecs, asset backup, management, light color grading, transcoding, preparation of assets for the NLE workflow and final asset output for various digital distribution channels. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 2341
Digital Output for Mobile Media
3:3:0  * Prerequisite(s): DGM 2120 or instructor approval
Focuses on the digital workflow and management of digital still and cinema camera assets. Addresses use of codecs and format types for use in mobile media use scenarios. Introduction to proper handling of assets in various development platforms and user experience design best practices when using assets on touch-based devices. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 240R
Special Topics in Digital Audio
1 to 4:0 to 4:0 to 12  * Prerequisite(s): DGM 1110
Designed for students interested in specific audio tools and concepts currently used in digital audio production. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits toward graduation. Software fee of $15 applies. Lab access fee of $35 for computers, applies.

DGM 2410
Core Recording Principles
3:3:0  * Prerequisite(s): DGM 2130
Teaches mic choice and placement, acoustic positioning, in-line signal processing, level matching, impedance matching, phase error elimination, pre-mixing and recorded stems, DAWs, Pro-Tools intermediate skills, project budgeting, and artist and client relations. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 2430
Core Mixing Principles
3:3:0  * Prerequisite(s): DGM 2410
Teaches the science and art of audio mixing, centering on a broad range of musical and media production material. Covers initial mix plan, signal flow, and fix, fit and feature skills for all signal processors, including equalization, compression, limiting, delay, reverb, distortion, doubling, phase, flange, chorus, other modulation effects, characteristics of algorithms (digital, solid state, transformers, rectifiers, tube, electro-optical, convolution). Also, teaches mix room acoustics, treatments and workarounds.

DGM 2440
Sound for Film and Television
3:3:0  Spring
* Prerequisite(s): DGM 2130
Teaches the basics of gathering sound for use in film and video productions. Covers proper boom miking and wireless mic techniques, and acoustics preparation to record dialogue and sound effects on location and on sound stages. Examines the processes utilized in editing audio of multimedia productions, including the balancing of artistic relationships, mixing and mastering of music, sound effects tracks and Foley. Offers practical experience in audio-only productions as well as audio-video relationships. Culminates in a digital cinema mixing session. Primarily a lab class, may couple with another video class to gather the sound for a cohesive project. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 2460
(Cross-listed with: COMM 2560)
Radio Production
3:3:0  Fall
* Prerequisite(s): DGM 2130
Teaches the history of radio, and the structure of typical radio stations, from management to programming and sales, and production and promotion. Covers methods of producing radio promos, radio shows, commercials and news segments, as well as features and interviews. Examines the use of Digital Audio Workstations to produce several audio segments of the student's choosing. Includes lectures, demonstrations, and guest lecturers from radio stations in the community. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 2481
Introduction to Digital Audio Restoration
3:3:0  Fall
* Prerequisite(s): DGM 2130
Teaches the value and use of various tools to restore, preserve, and archive audio from a variety of sources, including vinyl records, tapes, film soundtracks, etc. Additional topics include removal of ambient noise (fans, AC, etc) from class film projects, impulsive noise (clicks and pops), periodic noise (hum and buzz), and random noise (spectral subtraction of ambient noise). In addition, some attention will be given to the subject of audio forensics, or restoring audio for intelligence or law enforcement applications. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 250R
Special Topics in Digital Cinema
1 to 4:0 to 4:0 to 12  * Prerequisite(s): DGM 2110
Designed for students interested in specific video tools and concepts currently used in digital media processes. Includes relevant and changing topics and tools used in industry. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits toward graduation. Lab access fee of $35 for computers applies. Software fee of $15 applies. Course fee of $10 for equipment applies.

DGM 2540
Cinematography I
3:1:5  Fall, Spring
* Prerequisite(s): DGM 1510
Introduces the role of the Gaffer and the Grip in broadcast television and digital cinematography. Teaches full understanding of lighting instruments, power distribution, lighting support, rigging, dollies and production equipment. Teaches how to work as a member of a team/department applying on-set protocols to meet the needs of production objectives. Software fee of $15 applies. Lab access fee of $35 for computers applies. Course fee of $46 for equipment fee.

DGM 2600
The Animated Image
3:3:0  Fall
* Prerequisite(s): ENGL 1010
Chronicles the development of animation as a medium dependent on both aesthetics and technology from its inception in the late 19th century through contemporary scientific and entertainment venues. Introduces key international personalities and industry benchmarks. Discusses animation both as a means of self-expression and as a commercial enterprise. Includes film screenings and research assignments. Software fee of $15 applies. Lab access fee of $35 for computers applies.
Course Descriptions

DGM 260R
Special Topics in Animation and Game Development
1 to 4:0 to 4:0 to 12

Designed for students interested in specific animation tools and concepts currently used in digital animation production. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits toward graduation. Lab access fee of $35 for computers applies. Software fee of $15 applies. Course fee of $12 for equipment applies.

DGM 2610
Game Design I
3:3:0 Fall

*Prerequisite(s): DGM 2221

Explores video and computer gaming from historic, economic and production perspectives. Introduction to game theory, analysis, design documentation, and development. Lab access fee of $35 for computers applies.

DGM 2620
Principles of Animation I
3:3:0 Fall

*Prerequisite(s): DGM 1620 with a grade of B- or higher

Explores and applies animation principles including: timing and spacing, story keys, straight ahead, pose-to-pose, walks, runs, and flexibility. Emphasizes the study of objects in motion and the communication of key ideas. May be delivered hybrid. Lab access fee of $35 for computers applies. Software fee of $15 applies. Course fee of $18 for software and plug-ins applies.

DGM 2640
Character Development
3:2:2 Spring

*Prerequisite(s): (DGM 2210 and DGM 2620) or instructor approval

In-depth study and application of 3D character development for animation and games. Requires a firm understanding of 3D modeling, basic rigging, basic texturing, and principles of animation. Students will design, model, rig, and animate 3D characters following industry processes. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 2660
Digital Storyboarding
3:3:0 Fall, Spring

*Prerequisite(s) or Corequisite(s): DGM 2620 or DGM 2110

Introduces students to contemporary storyboarding practices, both linear and non-linear, key to communicating information clearly, and consistently in a cost effective manner. Laptop Required. Lab access fee of $35 for computers applies. Software fee of $15 applies. Course fee of $12 for software and plug-ins applies.

DGM 2670
Scripting for Animation and Games
3:3:0 Spring

*Prerequisite(s): DGM 2210

Focuses on the basic elements of scripting languages in modern 3D applications. Develops a firm understanding of basic scripting concepts in a 3D environment, including: libraries, expressions, arrays, conditionals, loops, and functions. Simplification of complex user operations, and the development of basic user interfaces will also be discussed. Utilizes industry standard applications, such as Maya, Houdini, and Unity3D. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 270R
Special Topics in Web Design and Development
1 to 4:0 to 4:0 to 12

Designed for students interested in specific web design tools and concepts currently used in multimedia creation. Includes relevant and changing topics and tools used in multimedia. Emphasizes hands-on experience along with lectures and demonstrations. Completers should be able to use the web design tools to create a typical multimedia project. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits toward graduation. Course fee of $10 for equipment applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 2740
Principles of Web Languages
3:3:0 Fall, Spring

*Prerequisite(s): DGM 2120, DGM 2271

Participants will solve various Web design and coding problems using current Internet technologies. Emphasis will be given to solving unique coding problems using HTML, CSS, and JavaScript that arise when implementing a Web design. May be delivered online. Software fee of $15 applies. Course fee of $18 for software and plug-ins applies. Lab access fee of $35 for computers applies.

DGM 2760
Web Languages I
3:3:0 Fall

*Prerequisite(s): DGM 2210

Considers the creation of websites using current client-side technologies, including: DHTML, or the combination of XHTML, JavaScript and Cascading Style Sheets. Covers advanced techniques for multimedia production and development in detail. Examines client-side technologies that allow viewers to interact with the content of Web pages. Extensively uses methods for creating highly interactive web sites without the use of authoring technologies. Teaches how to make the static content within a typical webpage more dynamic, interesting, and most importantly, useful. Culminates with a final project during which each student will design and create materials for use in a well-designed interactive web site. May be delivered online. Software fee of $15 applies. Course fee of $18 for software and plug-ins applies. Lab access fee of $35 for computers applies.

DGM 2780
Web Tools and Frameworks I
3:3:0 Fall

*Prerequisite(s): DGM 2120 or INFO 2420

Teaches students the necessary skills to build structured, maintainable, scalable, and testable web applications using frameworks, tools, and techniques common in the industry, including the latest web development technologies and practices e.g. HTML5, CSS3, JQuery, AngularJS, Mobile, etc. Incorporates project-based learning to help students gain solid web development experience through hands-on programming and problem solving a real world project. Software fee of $15 applies. Course fee of $18 for software and plug-ins applies. Lab access fee of $35 for computers applies.

DGM 281R
Internship
1 to 8:0:5 to 40 Fall, Spring, Summer

*Prerequisite(s): Departmental Approval

For Digital Media majors only. Provides a transition from school-to-work where learned theory is applied to actual practice through a meaningful on-the-job experience. Includes student, employer and coordinator evaluations, on-site work visits, and written assignments. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. Internship is intended for entry level DGM students who are working at that level. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. May be repeated for a maximum of 16 credits toward graduation. May be graded Credit/No-Credit.

DGM 296R
Seminar
1 to 3:1 to 3:0 to 9 On Sufficient Demand

*Prerequisite(s): DGM 2120 or INFO 2420

Provides short courses, workshops, and special programs in information management or current administrative topics. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits.

DGM 3110
Corporate Issues in Digital Media
3:3:0 Fall, Spring, Summer

*Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Covers business and legal issues in multimedia. Reviews good business practices for the multimedia industry. Studies universal marketing and sales principles and mastery, as well as e-commerce fundamentals. Teaches copyright laws and procedures, obtaining permissions, creating and using contracts, protecting corporate assets, standards, security and privacy issues, and other legal issues regarding multimedia communication. Software fee of $15 applies. Lab access fee of $35 for computers applies.

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DGM 312G
Digital Media for Intercultural Communication
3:3:0 Fall, Spring, Summer
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Explores issues, concepts, and practices for making digital media accessible to people from diverse cultures and people with disabilities. Covers design considerations and techniques for the Web and other digital technologies. Presents methods for understanding and comparing different cultures and ways of approaching and enhancing intercultural interactions. Addresses accessibility standards, guidelines, and laws important for digital media developers to know and implement. May be delivered online. Lab access fee of $35 for computers applies. Software fee of $15 applies. Course fee of $10 for equipment applies.

DGM 320R
Advanced Topics in Digital Media Design
1 to 4:0 to 4:0 to 12 On Sufficient Demand
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Intended for advanced students with an interest in digital design and authoring. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of $35 for computers applies. Software fee of $15 applies. Course fee of $10 for equipment applies.

DGM 3220
Digital Media Project Management
3:3:0 Fall, Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Teaches the foundational management principles that contribute to both the quality and profitability of digital media products. Introduces technical project management skills to help with budgeting and scheduling as well as critical soft skills, such as how to manage product design, make good decisions, communicate effectively, and build productive work relationships. Also, teaches about different types of project documents that enable and support effective, successful projects. May be delivered online. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3240
Interaction Design Colloquium
3:3:0 Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Provides advanced students with unique and current industry perspectives on interaction design through seminar discussions, workshops, and industry on-site experiences. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3260
Immersive Authoring II
3:3:0 Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Focuses on advanced application of media technologies and design paradigms when creating rich immersive experiences for distribution as a net-based desktop or mobile application. This course is designed to be highly adaptable to enable infusion of unique and emerging technologies that are critical for digital media majors to understand. Lab access fee of $15 for software and plug-ins applies. Course fee of $19 applies.

DGM 3261
Authoring for Virtual Reality Experiences
3:3:0 Fall
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Explores Virtual Reality as a technology for photographing locations and then allowing users to navigate through these spaces using QuickTime, Flash, or Java in a web browser. A virtual environment allows viewers to choose their own experience and make decisions as if they were actually on location. Virtual Reality environments are used to tour college campuses, museums, shops, sports venues, plan events at locations without visiting them in person; show real estate, enticing viewers to travel to vacation getaways; and create historical documentation. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3270
Digital Publishing II
3:3:0 Spring
* Prerequisite(s): DGM 2270 and Portfolio Review Acceptance, and University Advanced Standing
Focuses on the development of mobile apps for distribution on a myriad of devices. Teaches advanced development of publishing digital media experiences of all types and includes techniques for coding immersive experiences beyond standard practices. Such apps will be developed for touchscreen 'native' content and feature real-time updates. *Laptop & Device Required. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3271
Digital Media Design II
3:3:0 Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Teaches advanced adaptive development techniques of User Interface Design, which can create more robust experiences, through problem solving and effective communication. Focuses heavily on how designers can influence the user experience, and participatory outcomes of such experiences, through well-planned interactions, digital layout, and adaptation to the physical hardware. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3280
Authoring for Adaptive Media I
3:3:0 Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Focuses primarily on the ability to curate and realign rich content assets through Internet-based Apps. Focuses on the application of media technologies that possess the ability to create adaptable content media experiences. Focuses primarily on the ability to use/reuse content in meaningful ways through unique and highly efficient distribution means. Distribution can be to desktop, mobile, and enhancing technologies in the home or automobile markets. *Laptop Required Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3290
Developing Digital Media for Instruction and Training
3:3:0 Fall
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Teaches the lifecycle of training and development in a business setting. Uses the Instructional System Design (ISD) process, which includes identifying performance deficiencies and appropriate interventions, developing objectives, selecting appropriate learning technologies, developing course content, selecting effective instructional aids, delivering training, and evaluating training effectiveness. Reviews basic educational principles in teaching adults and managing classroom dynamics. Examines legal issues, cross-cultural preparation, and workforce diversity as they relate to training and development. Provides hands-on training experiences. Completers should be prepared to apply basic principles to training and development opportunities. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 330R
Advanced Topics in Digital Media Graphics
1 to 4:0 to 4:0 to 12 On Sufficient Demand
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Intended for advanced students with an interest in digital graphics and design. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of $10 for equipment applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3320
Digital Photography and Compositing II
3:3:0 Fall, Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Builds on skills acquired in Digital Photography and Imaging I. Uses photo imaging tools like Photoshop, Light Table, and Aperture in the creation and manipulation of digital images for use in a broad range of output specific formats. Teaches advanced image manipulation, and compositing and asset management to deliver finished digital image deliverables for such things as the web, DVD media, print, billboard, and wrap advertising media. Lab access fee of $35 for computers applies.
DGM 340R
Advanced Topics in Digital Audio
1 to 4:0 to 4:0 to 12
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Intended for advanced students with an interest in digital audio. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of 9 credits toward graduation. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3410
Audio Engineering for the Studio I
3:3:0
Fall
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Reviews basic sound principles (standing waves, studio acoustics, psycho-acoustics), microphone types and techniques of use. Covers theory and application of mixers, signal processors, and effects. Outlines proper construction and grounding of a recording studio. Introduces one or more digital audio workstations, which will be used to record a band or classical project. Requires use of a mixdown of a multi-track project. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3420
Audio Engineering for the Studio II
3:3:0
Spring
* Prerequisite(s): DGM 3410, Portfolio Review Acceptance, and University Advanced Standing
Reviews principles of good audio engineering covered in the introductory class, but in greater depth, including, cable types, microphone types, mixers, and techniques of use. Emphasis will be on mixing techniques for each individual instrument involved in the recording. Covers in-depth theory and application of mixers, signal processors, and effects. Addresses advanced stereo mixing techniques and focuses on several key instruments, including piano and drums. Continues further in-depth topics on impedance matching, power requirements, and the use of the decibel. Includes acoustic properties and sound transmission loss of common studio surface materials. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3430
Recording Studio Design Principles and Practices
3:3:0
On Sufficient Demand
* Prerequisite(s): DGM 3410, Portfolio Review Acceptance, and University Advanced Standing
Addresses many issues found in the design, construction and maintenance of a recording studio. Explores the physics, mathematics, electronics, and practical issues to properly design and build a successful recording studio. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3440
Sound for Games
3:3:0
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing; Laptop capable of running the Unreal Developer's Kit and Unity.
Teaches sound design and implementation for video games using both the Unreal Developer's Kit (Unreal Engine) and the Unity Game Engine. Includes visual and text-based scripting, signal flow, resource allocation and preservation, priority, layering, mastering for end-format, computer-based, console-based, and mobile-targeted development, and whole-project planning and execution. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3460
Live Sound Reinforcement
3:3:0
Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Teaches fundamental sound concepts: propagation, absorption, reflection, transmision, frequency response, effective manipulation of the decibel in calculations of loudness, power, and voltages. Covers intelligent use of microphone patterns, and loudspeaker and monitor placement. Investigates indoor sound vs. outdoor sound. Teaches proper cabling and connections, speaker crossovers, and theory of bi-amplification. Covers mixer diagrams and basic electronics. Incorporates practical experience acquired in giving technical support to UBV theater, music department, or public relations functions. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3481
Advanced Audio Restoration and Forensics
3:3:0
Fall
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Covers advanced principles and practices for digitally restoring difficult audio specimens, and includes forensic audio restorative and reconstructive techniques important to historical, investigative, and criminological fields as well. Also covers, in more depth, the cylinder recording period at the turn of the century. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 350R
Advanced Topics in Digital Motion Picture Production
1 to 4:0 to 4:0 to 12
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Addresses relevant and changing topics and tools used in digital motion picture industry. Emphasizes hands-on experience. Uses digital cinema and production management and development tools to create a typical digital media project. Curriculum may vary from one semester to another. May be repeated for a maximum of 9 credits toward graduation. Course fee of $10 for equipment applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 351R
Digital Broadcasting
3:2:2
Fall, Spring
* Prerequisite(s): DGM 2110, Portfolio Review Acceptance, and University Advanced Standing
Teaches planning, management and execution of live video productions integrating multiple cameras. Teaches the roles of the broadcast production team. Studies various types of digital standards and broadcast equipment. Includes hands-on broadcast lab where students produce and direct short productions. May be repeated for a maximum of 12 credits toward graduation. Course fee of $10 for equipment applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3520
Digital Motion Picture Production
3:2:3
Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Teaches advanced digital cinema storytelling production techniques for CD-ROM, DVD, Wide World Web and theatrical distribution. Includes instruction in the different positions that comprise the entire production team, including the roles of the team and how they evolve through the pre-production, production and post-production process. Stresses narrative film based on structurally sound three act eight sequence scripts. Involves dividing the class into production teams and producing short three act narrative films that include dialogue, sound effects and music. Course fee of $10 for equipment applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3530
Digital Film Production Management
3:3:0
Fall
* Prerequisite(s): Portfolio review acceptance or consent of instructor) and University Advanced Standing
Teaches the foundational principles which contribute to both quality and profitability in digital motion picture projects that range from micro to mega budgets. Reviews team dynamics such as the relationship between producer and other production team members. Introduces industry standard Entertainment Partners budgeting and scheduling software tools, which can be used as management tools to guide multiple projects. Focuses on video/film workflow, from development and budgeting to pre-production, production and post-production. Requires the submission of an industry standard production book at the end of the semester. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3540
Cinematography II
3:1:5
Fall, Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
A hands-on class that covers the role of the Director of Photography (DP) and Gaffer in drama-based broadcast television and digital cinematography. Teaches continuity of lighting, visual story telling, implied script subtext though light quality and color, continuity in direction, use of lenses and shot blocking for fixed and moving camera. Covers advanced grip and lighting equipment use and setups. Covers working with a producer, director, production designer, set decorator, boom operator and editor and on-set protocol. Software fee of $15 applies. Lab access fee of $35 for computers applies. Course fee of $46 for equipment applies.
Course Descriptions

DGM 3550
Producing I
3:3:0
* Prerequisite(s): DGM 3530, Portfolio Review Acceptance and University Advanced Standing
Examines the process of motion picture development and distribution with focus on the role of the producer in identifying, evaluating, developing, financing and securing distribution. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3560
Post Production
3:3:1 Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Teaches the professional post production process used to complete video tape, digital cinema, and multimedia productions. Covers workflow, dialogue cutting, montage cutting, music cutting, multi-camera editing, multilayer composting, audio mixing, special effects editing, animation editing, fine cutting and color correcting. Course fee of $13 for software and plug-ins applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3570
Digital Story Telling Workshop
3:3:0 Fall, Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Teaches advanced writing for digital media and digital cinema. Covers professional script structure based around the 8 sequence motion picture structure. Includes writing assignments each week that will be read and analyzed according to structure and execution of a goal. Discusses, a specific scriptwriting subject each week such as finding the idea, research, outlining and rewriting. Course fee of $13 for software and plug-ins applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3580
Digital Cinema Production Workshop
3:2:3 Fall, Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Offers an advanced workshop format class structure. Requires a short script or concept to be polished and produced during the semester. Utilizes project-based opportunities to apply and hone skills in digital cinema direction, editing scripts, casting, rehearsing and performing a scene, cinematography and post production. Includes polishing concept for shooting, then shooting and editing for presentation and critique. Course fee of $13 for software and plug-ins applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 360R
Advanced Topics in Animation and Games
1 to 4:0 to 4:0 to 12
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Intended for advanced students with an interest in digital animation. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of 9 credits toward graduation. Course fee of $12 for equipment applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3610
Game Design II
3:2:3 Spring
* Prerequisite(s): DGM 2610, Portfolio Review Acceptance and University Advanced Standing
Follows DGM 2610 Game Design I. Continues study of game theory, analysis, design documentation. Emphasis on game development using a gaming engine. A laptop computer is required for this course. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3620
Principles of Animation II
3:3:0 Spring
* Prerequisite(s): DGM 2620, Portfolio Review Acceptance and University Advanced Standing
Continued study of animation principles and concepts from DGM 2620. Includes an introduction to effects animation. Emphasizes character motion, and performance in a team-based project. Software fee of $15 applies. Course fee of $20 applies. Lab access fee of $35 for computers applies.

DGM 3621
Hard Surface Modeling
3:2:3 On Sufficient Demand
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Teaches theories, tools, and principles of current industry modeling trends, specifically for video games and short animated films. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3641
Game Level Design
3:3:0 Fall
* Prerequisite(s): DGM 2610
An advanced treatment of a three step process in level/environmental design: Research and analysis, concept and prototype development, and testing and comparative metrics. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3650
Animation and Game Project I
3:2:3 Fall
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Emphasizes industry pipeline processes. Covers the application of lighting and rendering in 3D animation and game environments. Includes composition, technical lighting, layer-based rendering, and texture baking. A junior-level group project will be completed in the course of the semester. Lab access fee of $35 for computers applies.

DGM 3660
Advanced Rigging and Character Effects
3:3:0 Spring
* Prerequisite(s): DGM 3650, Portfolio Review Acceptance and University Advanced Standing
Studies the process of rigging, and the motion of characters and objects in games and animation. Includes full character, muscle, facial, and dynamic rigs. Reinforces principles of animation. Lab access fee of $35 for computers applies.

DGM 3670
Scripting for Animation and Games II
3:3:0 Spring
* Prerequisite(s): DGM 2670
Provides a practical examination into the development of three-dimensional video games. Focuses on the application of advanced technical topics as they impact game development. Addresses networking and distributed systems issues, including scalability and latency compensation techniques, for designing games for online multi-player environments. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3680
Animation and Game Project II
3:3:0 Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Devoted to the pre-production of a multi-semester team project for gaming and animation students. Includes research, writing, scripting, designing, storyboarding and pre-visualization of a client-driven project. Software fee of $15 applies. Course fee of $19 for software and plug-ins applies. Lab access fee of $35 for computers applies.

DGM 370R
Advanced Topics in Web Design and Development
1 to 4:0 to 4:0 to 12
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Intended for advanced students with an interest in Internet authoring. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of 9 credits toward graduation. Course fee of $10 for equipment applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3740
Web Content Management
3:3:0 Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
Instructs students on how to create a site that in content rich, dynamic, and meaningful to site visitors. Teaches participants how to effectively plan, develop, and arrange content through the use of information design principles, content management systems, and analysis tools. Culminates with students building a live site for a real-world client where students must solve real design, development, and delivery issues. Software fee of $15 applies. Course fee of $19 for software and plug-ins applies. Lab access fee of $35 for computers applies.
Course Descriptions

DGM 3750
Media Traffic and Analytics
3:3:0 Fall
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Provides students access to all the leading and most effective traffic techniques, ranging from organic search traffic and all aspects of SEO, through paid traffic of all kinds, and on to free, direct traffic methods. Includes Web and Mobile traffic techniques and analytical tools. Covers all the concepts involved in these areas of traffic and analytics, and will have experience actually generating traffic to a real web page (and may even make money), and using analytical tools to evaluate their results. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 3760
Web Languages II
3:3:0 Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
* Prerequisite(s) or Corequisite(s): DGM 1110 and DGM 2120

Covers server-side web development and database interaction. Offers the skills and knowledge necessary to produce web sites in a professional environment. Covers current technology and design standards for websites that are database driven using current languages and platforms. Demonstrates how database interaction can enhance a multimedia website. Includes lectures, demonstrations, and weekly projects. Culminates with a final project during which each student will design and create materials for use in a well-designed database driven web site. May be delivered hybrid. Software fee of $15 applies. Course fee of $19 for software and plug-ins applies. Lab access fee of $35 for computers applies.

DGM 3780
Web Tools and Frameworks II
3:3:0 Spring
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Teaches advanced skills to build structured, maintainable, scalable, and testable web applications using frameworks, tools, and techniques common in the industry, including the latest web development technologies and practices e.g. HTML5, CSS3, jQuery, AngularJS, Mobile, etc. Incorporates project-based learning to help students gain solid web development experience through hands-on programming and problem solving a real world project. Software fee of $15 applies. Course fee of $19 for software and plug-ins applies. Lab access fee of $35 for computers applies.

DGM 3790
Rich Internet Application Development I
3:3:0 Fall
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Instructs students in various Rich Internet Application development technologies. Investigates RIA development and delivery technologies such as Flash, Flex, and ActionScript, with a special emphasis on the integration of Digital Media into Internet applications. Teaches the design and development workflow for interactive, media-rich applications delivered via networked browser, computer desktops, and mobile devices. Software fee of $15 applies. Course fee of $19 for software and plug-ins applies. Lab access fee of $35 for computers applies.

DGM 4000
Writing for Digital Media
3:3:0 Fall, Spring
* Prerequisite(s): ENGL 2010 or ENGL 2020, Portfolio Review Acceptance, and University Advanced Standing

Teaches the role of the written word in the digital arena and the writing skills for students to become effective communicators within the various forms of multimedia including web pages, digital animation, audio, video and cinema.

DGM 4280
Authoring for Adaptive Media II
3:3:0
* Prerequisite(s): DGM 3280

Focuses on the advanced application of media technologies that possess the ability to create adaptable content media experiences. Focuses primarily on the ability to curate and realign rich content assets through Internet-based Apps. Teaches principles of distribution that can be applied to desktop, mobile, and advancing technologies in the home or automobile markets with a specific focus on dynamic retrieval and adaptation of content. *Laptop Initiative Requirement. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 4310
Senior Projects I
3:1:6 Fall
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

For senior Digital Media students. Provides a capstone experience working in digital media. Develops individual real world projects in consultation with a faculty advisor. Encourages team work. Course fee of $10 for equipment applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 4410
Senior Projects II
3:3:0 Spring
* Prerequisite(s): DGM 4310, Portfolio Review Acceptance, and University Advanced Standing

Conclusion of DGM 4310. Concludes the capstone experience for digital media students. Addresses post production issues such as testing, packaging, and documentation. Offers the opportunity to present projects to students, faculty, sponsors, and potential employers or clients. Course fee of $10 for equipment applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 4420
Applied Digital Media Technology
3:3:0 On Sufficient Demand
* Prerequisite(s): University Advanced Standing

For educators and general public interested in technology integration. Examines the ever-expanding array of options available to educators, business personnel and government agencies for creating and distributing rich media based materials. Explores what new technologies and creative practices are available and how to implement them into their present workflow. Focuses on getting the most out of Digital Media technology. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 4430
Audio Mastering
3:3:0 On Sufficient Demand
* Prerequisite(s): DGM 3420, Portfolio Review Acceptance, and University Advanced Standing

Deals with the final step in any audio production-- Mastering. Covers the art of final EQ and Compression. Explores the issues of bit depth, sampling rates, dither, jitter, EQ techniques, and Dynamic Range manipulation (expanders and compressors). Looks into analog and digital signal processors, including reverb, and the final step of putting an album together with a brief discussion on vinyl pre-mastering. Teaches the use no fewer than 15 different compressors, both analog and digital for comparative listening tests. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 454R
Cinematography Workshop
3:2:2
* Prerequisite(s): DGM 3540, Portfolio Review Acceptance and University Advanced Standing

Offers an advanced workshop format class structure. Utilizes project-based opportunities to apply and hone advanced professional skills in composition, lighting and camera movement. May be repeated for a maximum of 9 credits toward graduation. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 4560
Color Grading
3:2:2
* Prerequisite(s): DGM 3560, Portfolio Review Acceptance and University Advanced Standing

Focuses on digital post production workflow and color grading, digital output for digital motion picture production. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 4610
Designing Technology-based Training
3:3:0 On Sufficient Demand
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Provides shadowing opportunities in an educational or business setting where students can see basic principles of training and development in action and gain insights into training design, development, implementation, and evaluation. Uses the course map content from the DGM 3290 course to pre-author a technology-based training program, which includes creating a course navigation map (flowchart) to determine course sequence and navigational paths, designing storyboard frames with multimedia elements, and generating the navigation map and storyboards into an authoring tool. Completers should be prepared to apply shadowing experiences, discussion insights, and pre-authoring computer skills to future training opportunities. Software fee of $15 applies. Lab access fee of $35 for computers applies.
DGM 4620 Producing Technology-based Training
3:3:0 On Sufficient Demand
* Prerequisite(s): DGM 4610 and University Advanced Standing

Builds on information taught in DGM 3290 and DGM 4610. Generates storyboards from a computer design tool into an authoring tool. Teaches basic principles of building and editing frames with text and multimedia elements. Provides practice and feedback, remediation as needed. Addresses individual learner needs and evaluation of program effectiveness. Uses program objectives to evaluate final program product. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 4621 Performance Animation
3:2:3 On Sufficient Demand
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Teaches basic animation principles, such as: flexibility, timing and spacing, overlapping action, the successive-breaking-of-joints, and overlapping action. Covers theatrical performance animation, emotional facial, phoneme, and dialoged animation. Explores expressive character enactment, representative of life. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 4630 Visual Effects and Compositing I
3:3:0 Fall
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Focuses on the production of digital special effects and compositing in 2D and 3D environments. Includes multi-layer effects, green screen, digital mattes, and grading. Tools may include visual effects editing and particle generation software. Software fee of $15 applies. Course fee of $19 for software and plug-ins applies. Lab access fee of $35 for computers applies.

DGM 4640 Visual Effects and Compositing II
3:2:3 Spring
* Prerequisite(s): DGM 4630, Portfolio Review Acceptance, and University Advanced Standing

Focuses on the use of digital special effects in a three-dimensional environment including high-end particle effects, digital fluids, and advanced simulation. Tools include industry standard Maya and Houdini. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 4790 Rich Internet Application Development II
3:3:0 Spring
* Prerequisite(s): DGM 3790, Portfolio Review Acceptance, University Advanced Standing

Instructs students in various Rich Internet Application development technologies with a focus on utilizing server-side resources. Investigates a wide variety of RIA technologies including media servers, messaging, and web services. Teaches how to design and develop RIAs using a variety of tools, code frameworks, and delivery clients. Requires creation of interactive and useful media-rich web experiences for end users. Software fee of $15 applies. Lab access fee of $35 for computers applies.

DGM 481R Internship
1 to 8:0:5 to 40 Fall, Spring, Summer
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

For Digital Media majors only. Provides a transition from school to-work where learned theory is applied to actual practice through a meaningful on-the-job experience. Includes student, employer and coordinator evaluations, on-site work visits, and written assignments. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. Internship is intended for senior DGM students who are working at that level. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. May be repeated for a maximum of 16 credits towards graduation. May be graded credit/no-credit.

DGM 497R Independent Study
1 to 3:0 to 3:0 to 9 Fall, Spring, Summer
* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

For bachelor's degree students and other interested persons. Offers independent study as directed in reading or in individual projects; offered at the discretion and approval of the department chairperson. May be repeated for a maximum of 6 credits toward graduation.

Diesel Mechanics (DMT)

DMT 1000 Related Oxyacetylene and Arc Welding
3:1:7 Fall, Spring

Specially course designed for diesel mechanics, other trade areas, and interested community members. For beginning students. Covers theory and practice of oxyacetylene and arc welding of mild steel. Includes identification of basic and filler metals and melting temperatures of various metals. Emphasis is placed on root penetration and fusion of welded materials. Completers should be able to weld in their professional area.

DMT 1110 Diesel Engine Overhaul
4:4:0 Fall, Spring
* Prerequisite(s): Minimum ACT Reading score of 16 or Accuplacer score of 60
* Corequisite(s): DMT 111L Recommended

Studies diesel engine operating principles, factors affecting performance, design variations, and identification of components. Involves theory of disassembly and reassembly of diesel engines following industry standard overhaul procedures. Covers the identification, inspection, and measuring of parts to determine condition for reuse. Uses failed components to assist in teaching troubleshooting skills. Provides theory of engine tune-up processes on various engines used by industry. Software fee of $10 applies. Lab access fee of $15 for computers applies.

DMT 1111L Diesel Engine Overhaul Lab
2:0:6 Fall, Spring
* Prerequisite(s) or Corequisite(s): DMT 1110

Provides hands on experience in diesel engine operating principles, factors affecting performance, design variations, and identification of components. Requires disassembly and reassembly of diesel engines following industry standard overhaul procedures. Covers the identification, inspection, and measuring of parts to determine condition for reuse. Utilizes failed components to assist in teaching troubleshooting skills. Tool room fee of $10 for equipment applies. Course Lab fee of $22 for materials applies.

DMT 1120 Diesel Engine Operation/Tune Up
4:4:0 Fall, Spring
* Prerequisite(s): DMT 1110
* Corequisite(s): DMT 112L Recommended

Continues the study of engine components and controls, operating systems, as well as performance factors. Provides the opportunity to study component replacement, tune-up adjustments, and preparing to run an engine under load in a dynamometer test cell. Emphasis on basic engine operating factors, and troubleshooting complaints such as low power, smoke conditions, engine faults, etc. Software fee of $10 applies. Lab access fee of $15 for computers applies.

DMT 112L Diesel Engine Operation/Tune Up Lab
2:0:6 Fall, Spring
* Prerequisite(s) or Corequisite(s): DMT 1120

Continues the study of engine components, operating systems, and performance factors. Provides opportunity to perform hands-on component replacement and tune-up adjustments. Provides the opportunity to run an engine under load in a dynamometer test cell. Emphasizes basic engine operating factors and troubleshooting complaints, such as low power, smoke conditions, engine faults, etc. Tool room fee of $10 for equipment applies. Course Lab fee of $27 for materials applies.

DMT 1510 Electrical Systems Theory
4:4:0 Fall, Spring
* Prerequisite(s): AUT 1260 (or any MAT or MATH course 1000 or higher) with a C- or better
* Corequisite(s): DMT 151L Recommended

Studies theory of operation, troubleshooting and adjustment of heavy duty mobile electrical systems. Uses state-of-the-art testing equipment. Includes safety and environmental awareness. Offered on the block. Software fee of $10 applies. Lab access fee of $15 for computers applies.
Course Descriptions

DMT 151L Electrical Systems Lab 2:0:6 Fall, Spring
* Prerequisite(s): AUT 1260 (or any MAT or MATH course 1000 or higher) with a C- or better
* Corequisite(s): DMT 151L Recommended
Provides hands-on experience in basic circuitry, digital volt/ohm meter usage. Studies electrical component identification, troubleshooting and repair, charging system troubleshooting and repair, starting system troubleshooting and repair, electrical safety, and preventative maintenance. Tool room fee of $10 for equipment applies. Course Lab fee of $30 for materials applies.

DMT 1520 Engine Electronics and Diagnostics Theory 4:4:0 Fall, Spring
* Prerequisite(s): AUT 1260 (or any MAT or MATH course 1000 or higher) with a C- or better
* Corequisite(s): DMT 152L Recommended
Studies operation and troubleshooting of late model electronic controls for diesel engines. Utilizes factory methodology and approved test equipment. Discusses dynamometer testing and adjustment. Covers DOT vehicle lighting installation, troubleshooting and repair. Software fee of $10 applies. Lab access fee of $15 for computers applies.

DMT 152L Engine Electronics and Diagnostics 2:0:6 Fall, Spring
* Prerequisite(s): AUT 1260 (or any MAT or MATH course 1000 or higher) with a C- or better
* Corequisite(s): DMT 152L Recommended

DMT 2230 Climate Control Lab 1:0:3 Spring
* Prerequisite(s) or Corequisite(s): DMT 2230
Provides hands-on opportunity to locate, identify, test, service, and troubleshoot different types of mobile AC systems using EPA approved equipment & procedures. Students will demonstrate their proficiency using recovery recycling, evacuating, and charging equipment for both R-12 & R-134A refrigerants. Also provides hands-on experience with auxiliary power units used on highway trucks. $10 course fee for equipment, and $19 course fee for materials applies.

DMT 2310 Fluid Power Theory 4:4:0 Fall, Spring
* Corequisite(s): DMT 231L Recommended
Teaches the fundamental principles of fluid power (hydraulics). Emphasizes the relationships between pressure, force, area, and resistance as well as rpm, torque, hydraulic horsepower, and energy. Covers the application and operation of all of the essential components found in a hydraulic system. Introduces various types of circuit designs and schematic symbols. Software fee of $10 applies. Lab access fee of $15 for computers applies.

DMT 231L Fluid Power Lab 2:0:6 Fall, Spring
* Prerequisite(s) or Corequisite(s): DMT 231L Recommended
Provides practical lab experience related to the identification, operation, and repair of basic hydraulic system components and circuits. Utilizes various lab equipment or machinery to familiarize students with basic system designs and use of schematics. Emphasizes the use of tools and diagnostic equipment for component and system testing. Tool room fee of $10 for equipment applies. Course Lab fee of $17 for materials applies.

DMT 2320 Fluid Power Transmission Theory 2:2:0 Fall, Spring
* Corequisite(s): DMT 232L Recommended
Provides instruction in the theory and operation of hydrostatic and automatic transmissions used with heavy equipment. Emphasizes component operation, maintenance, repair, testing, and troubleshooting. Software fee of $10 applies. Lab access fee of $15 for computers applies.

DMT 232L Fluid Power Transmission Lab 1:0:3 Fall, Spring
* Prerequisite(s) or Corequisite(s): DMT 232L
Provides hands-on experience with hydrostatic and automatic transmissions. Emphasizes disassembly, reassembly, maintenance, repair, troubleshooting, and the use of diagnostic tools and service manuals.

DMT 2410 Chassis Theory 4:4:0 Fall, Spring
* Corequisite(s): DMT 241L Recommended
For third and fourth semester students. Provides theory on maintenance and repair of heavy duty chassis systems. Covers air brake systems, ABS, steering geometry, front end and tandem alignment, steering and load carrying suspensions, and frame maintenance. Emphasizes troubleshooting, highway safety, and preventative maintenance. Software fee of $10 applies. Lab access fee of $15 for computers applies.

DMT 241L Chassis Lab 2:0:6 Fall, Spring
* Prerequisite(s) or Corequisite(s): DMT 2410
For third and fourth semester students. Gives hands-on experience in dealing with the operation of, and troubleshooting and repair of modern truck and equipment air brake systems, ABS brakes, foundation brakes and wheel ends, front end and tandem alignments, steering and load carrying suspensions and frame maintenance. Tool room fee of $10 for equipment applies. Course Lab fee of $22 for materials applies.

DMT 2420 Power Trains Theory 4:4:0 Fall, Spring
* Corequisite(s): DMT 242L, Recommended
For third and fourth semester students. Provides theory in maintenance and repair of heavy duty power trains systems. Covers clutches, single and multiple counter shaft transmission, computer controlled transmissions, drive line geometry, differentials and DOT safety requirements. Emphasizes troubleshooting, highway safety, and preventative maintenance. Software fee of $10 applies. Lab access fee of $15 for computers applies.

DMT 242L Power Trains Lab 2:0:6 Fall, Spring
* Prerequisite(s) or Corequisite(s): DMT 2420
For third and fourth semester students. Provides hands-on experience in maintenance and repair of heavy duty power trains systems. Covers clutches, single and multiple counter shaft transmission, computer-controlled transmissions, drive line geometry, differentials and DOT safety requirements. Emphasizes troubleshooting, highway safety, and preventative maintenance. Tool room fee of $10 for equipment applies. Course Lab fee of $22 for materials applies.

DMT 281R Cooperative Work Experience 1 to 8:0:5 to 40 Fall, Spring
* Corequisite(s): DMT 285R
Designed for Diesel Mechanics Technology majors. Provides paid, on-the-job work experience in the student’s major. Work experience, the correlated class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated for a maximum of 16 credits toward graduation. May be graded credit/no credit.
DMT 285R  
Cooperative Correlated Class  
1:1:0  Fall, Spring  
* Corequisite(s): DMT 281R  
Designed for Diesel Mechanics Technology majors. Identifies on-the-job problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study.

DMT 291R  
Special Projects  
1 to 5:0:3 to 15  Fall, Spring  
* Prerequisite(s): Advisor and Instructor Approval  
For students majoring in diesel technology. Involves special projects. Allows independent projects that are designed to enhance beginning or advanced abilities. Repeatable for as many times as desired.

DMT 298R  
Technical Workshop  
1 to 4:0 to 4:0 to 12  On Sufficient Demand  
For Diesel Technology students and other interested community members. Tailored to a specific topic, product, component, or vehicle related to the diesel service industry. Its purpose is to update technician training by addressing changes in products or equipment. Topics will vary. May be presented by an OEM, a dealer representative, or faculty member. Repeatable.

DMT 299R  
VICA  
1:1:0  Fall, Spring  
* Corequisite(s): Advisor and Instructor Approval  
For Diesel Technology students and other interested community members. Tailored to a specific topic, product, component, or vehicle related to the diesel service industry. Its purpose is to update technician training by addressing changes in products or equipment. Topics will vary. May be presented by an OEM, a dealer representative, or faculty member. Repeatable.

Elec Automat and Robotic Tech (EART)  

EART 1130  
Basic Electrical Theory for EART Technicians  
4:4:0  Fall, Spring  
* Corequisite(s): EART 1050 and EART 1180  
Covers basic DC and AC theory involving voltage, current, resistance, batteries, magnetism, reactance, power and the use of digital meters. Includes the study of series, parallel, and complex circuits, and troubleshooting techniques. Studies both DC&AC motors and AC transformers. Explains the Reaction Theory of inductance, capacitance, and resistance dealing with L.C.R. circuits. Includes basic Digital Fundamentals of binary number systems and logic gates. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EART 1180  
Basic Electrical Lab for EART Technicians  
5:0:15  Fall, Spring  
* Corequisite(s): EART 1130, EART 1050  
Emphasizes lab experiences in basic DC/AC theory such as voltage, current, resistance, batteries, magnetism, wire sizing, splicing, soldering, and conduit bending, troubleshooting, Ohm’s Law, series/parallel circuits, combination circuits, capacitors, inductors, resistors, and L.C.R. circuits. Includes safety procedure, basic electrical tools, and electrical symbols. Introduces industrial, commercial, and residential wiring techniques to include contactors, single pole switches, 3 & 4 way switching, low voltage controls, electronic door locks, fire alarm systems, breakers, and panels. Software fee of $18 applies. Lab access fee of $35 for computers applies. Course lab fee of $25 for materials applies.

EART 1250  
Electrical Wiring and Code  
2:1:3  Fall, Spring  
* Prerequisite(s): EART 1130, EART 1050, and EART 1180; or departmental approval  
Covers the National Electrical Code using theory, specifications, blueprints and installation methods pertaining to residential, commercial, and industrial applications. Includes lectures and lab experiences. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EART 1260  
Logic  
2:1:3  Fall, Spring  
* Prerequisite(s): EART 1130, EART 1050, and EART 1180; or departmental approval  
For students who desire a basic understanding of Digital Logic systems. Covers the basic logic levels, the 1’s and 2’s complement. Studies binary, decimal, octal, and hexadecimal numbers. Includes problems using Boolean Algebra, and DeMorgan’s theorems. Teaches how to minimize combinational gates and troubleshoot logic circuits. Includes lecture, demonstrations, and lab work emphasizing hands-on lab experiments using logic gate circuits. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EART 1280  
DC and AC Machines for EART Technicians  
5:5:0  Fall, Spring  
* Prerequisite(s): EART 1130, EART 1050, and EART 1180; or departmental approval  
* Corequisite(s): EART 1285  
Covers installation, controls, troubleshooting, preventive maintenance, and repairs on DC/AC motors, generators, and control systems. Introduces the students to ladder logic, controls, sensors, overloads, and electronic devices used to control DC/AC Machines. Supports hands-on labs and projects in EART 1285. Lab access fee of $35 for computers applies.

EART 1285  
DC and AC Machines Lab for EART Technicians  
4:0:12  Fall, Spring  
* Prerequisite(s): EART 1130, EART 1050, EART 1180  
* Corequisite(s): EART 1280  
Trains students in the proper use of tools and test equipment needed to maintain motors and their controllers. Emphasizes the use of schematics, line diagrams, ladder logic, pictorial diagrams to wire, design, and repair electrical systems, and DC/AC Machines. Covers how DC, AC, single phase, and three phase motors work and the workings of single phase and three phase transformers used in wye and delta configurations. Course Lab fee of $14 for supplies/materials applies. Lab access fee of $35 for computers applies.

EART 2110  
Industrial Electronics for EART Technicians  
1:1:0  Fall, Spring  
* Prerequisite(s): EART 1280, and EART 1225; or departmental approval  
* Corequisite(s): EART 2250  
Introduces students to semiconductor theory including practical labs. Covers the concepts of PN junctions, transistors, voltage amplifiers, diodes, and other special semiconductors. Software fee of $18 applies. Course lab fee of $29 for materials applies. Lab access fee of $35 for computers applies.

EART 2150  
Industrial Hydraulics and Pneumatics  
3:2:3  Fall, Spring  
* Prerequisite(s): EART 1280, EART 1285, EART 2250, or departmental approval  
* Corequisite(s): EART 2270  
Covers the fundamentals of hydraulic and pneumatic components and systems used in industrial applications. Studies pumps, motors, directional and flow control valves, cylinders, transmission, and fluids. Emphasizes maintenance, safety, and environmental problems. Examines troubleshooting techniques and blueprint/printed reading. Completers should be able to work with hydraulic and pneumatic systems in correlation with related industrial electrical applications at entry-level jobs in the electrical maintenance field. Includes lecture, demonstration, and lab work. Course Lab fee of $15 for supplies/materials applies. Software fee of $18 applies. Lab access fee of $35 computers applies.
Course Descriptions

EART 2160
Industrial Electronics for EART Technicians II
5:3:6 Fall, Spring
* Prerequisite(s): EART 2110 or departmental approval
* Corequisite(s): EART 2270
Teaches the theory and operation of industrial solid state thyristor devices, power circuits, integrated circuits, operational amplifiers, and AD/DC motor devices. Competence in industrial controls with solid state circuits, amplifiers, and variable speed drives will be obtained by the student. Course Lab fee of $11 for materials applies. Software fee of $18 applies. Lab access fee of $35 computers applies.

EART 2250
Industrial Programmable Logic Controllers--PLC's
5:3:6 Fall, Spring
* Prerequisite(s): EART 1260, EART 1285
* Corequisite(s): EART 2110
Covers the theory, programming and industrial control system applications of small and medium sized programmable logic controllers (PLCs). Studies basic maintenance and troubleshooting techniques for programmable logic controllers. Includes lecture, demonstration, print reading, and lab projects with hands-on experience. Completers should be able to work in industry in related work at entry-level positions with safety and environmental awareness. Course Lab fee of $19 for materials applies. Software fee of $18 applies. Lab access fee of $35 computers applies.

EART 2250R
Cooperative Work Experience
1 to 8:0:5 to 40 Fall, Spring, Summer
* Prerequisite(s): Approval of Department Chair
Provides paid on-the-job work experience that relates to Electrical Automation and Robotics Technology (EART) in the student's major. Work experience, the related class, and enrollment are coordinated by the EART Cooperative Coordinator. Completers must individually set and complete goals/learning objectives based on the job description from their work assignment. May be graded credit/no credit.

EART 285R
Cooperative Correlated Class
1:1:0 Fall, Spring, Summer
* Prerequisite(s): Approval of Department Chair
Designed to identify on-the-job problems and to remedy those problems through in-class discussion and study. Focuses on preparing for, participating in, and utilizing the experiences available from working in a cooperative education/internship program.

Electrical and Computer Engineering (ECE)

ECE 1020
Computer Engineering Problem Solving with MATLAB and LabVIEW
1:1:0 Fall, Spring
* Prerequisite(s): MATH 1050 or higher
Introduces the field of Computer Engineering through programming in the MATLAB and LabVIEW languages. Teaches the design of various components of a prototype communication system while learning about the following aspects of MATLAB: scripts and functions files, math functions, commands for array construction and manipulation, string expressions, logic operators, program flow, and graphics. No prior knowledge of computer engineering is assumed. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 2200
Fundamentals of Electric Circuit Analysis
3:3:0 Not Offered
* Prerequisite(s): MATH 1210 and CS 2810 or PHYS 2220
Studies fundamental electric circuit analysis techniques. Covers DC, AC, and transient analysis utilizing node and mesh analysis. Introduces the use of CAD tools. Software fee of $35 for computers applies.

ECE 2205
Circuit Theory
3:3:0 Fall, Spring
* Prerequisite(s): MATH 1210, PHYS 2220, ECE 1020
* Corequisite(s): ECE 2255
Develops linear circuit theory and its application in the analysis and design of PLC active circuits. Covers DC, AC, and transient analysis utilizing node and mesh analysis. Introduces the use of CAD tools. Lab access fee of $35 for computers applies.

ECE 2255
Circuit Theory Lab
1:0:2 Fall, Spring
* Prerequisite(s): MATH 1210, PHYS 2220
* Corequisite(s): ECE 2250
Laboratory for ECE 2250 develops linear circuit theory and its application in the analysis and design of RLC active circuits. Covers DC, AC, and transient analysis utilizing node and mesh analysis. Introduces the use of CAD tools. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 2700
Digital Design I
3:3:3 Fall
* Prerequisite(s): MATH 1050 and (CS 2810 or PHYS 2220 or ECE 2250)
* Corequisite(s): ECE 2705
Studies the design and application of combinational and sequential logic circuits with discrete and programmable logic devices. Lab access fee of $35 for computers applies.

ECE 2705
Digital Design I Lab
1:0:2 Fall
* Prerequisite(s): MATH 1050 and (CS 2810 or PHYS 2220 or ECE 2250)
* Corequisite(s): ECE 2700
Designed to accompany ECE 2700. Covers design of digital systems with discrete and programmable logic devices. Includes the use of CAD tools for system design and verification. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 3710
Applied Probability and Statistics for Engineers and Scientists
3:3:0
* Prerequisite(s): MATH 1210 and University Advanced Standing
Studies probability and statistical theory with an emphasis on engineering and computer science applications. Covers descriptive statistics, discrete and continuous random variables, probability distributions, hypothesis testing, expectation, estimation, ANOVA testing, and regression analysis. Includes computer analysis of data and simulation. Software fee of $10 applies. Lab access fee of $35 for computers applies.

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ECE 3730 Embedded Systems I 3:3:0 Fall
* Prerequisite(s): ECE 2700 and University Advanced Standing

Presents an introduction to the basic building-blocks and the underlying scientific principles of embedded systems. Covers both the hardware and software aspects of embedded processor architectures and assembly language programming. Develops the theory and technology necessary for the interconnection of devices and systems to microcontrollers by using hardware and software examples and students' projects. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 3740 Digital Design II 3:3:0 Spring
* Prerequisite(s): ECE 2700 and University Advanced Standing

Covers the design and verification of digital systems. Emphasizes hierarchal design principles and the use of programmable logic devices (PLDs). Utilizes modern CAD tools and design languages (VERILOG). Lab access fee of $35 for computers applies.

ECE 3750 Engineering Analysis 3:3:0 Fall
* Prerequisite(s): MATH 1220, ECE 1020, and University Advanced Standing

Studies Linear systems, abstract vector spaces, matrices through eigenvalues and eigenvectors, solution of ordinary differential equations, Laplace transforms, first order systems, and complex numbers. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 3760 Electronic Systems 3:3:0 Spring
* Prerequisite(s): ECE 2250 and University Advanced Standing
* Corequisite(s): ECE 3765

Introduces semiconductor theory and the fundamentals of diode and transistor operation. Covers the use of discrete and integrated active devices in linear amplifier and switching applications. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 3765 Electronic Systems Lab 1:0:2 Spring
* Prerequisite(s): ECE 2255 and University Advanced Standing
* Corequisite(s): ECE 3760

Designed to accompany ECE 3760. Covers electronic analog circuit design, simulation, construction, debugging and measurement of circuit performance quantities using advanced instrumentation techniques. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 3770 Signals and Systems 3:3:0 Spring
* Prerequisite(s): ECE 3750 and University Advanced Standing

Studies the time and frequency domain analysis of continuous time systems subjected to periodic and nonperiodic input signals. Introduces signal and transform theory and the application of Laplace and Fourier transforms. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 4730 Embedded Systems II 3:3:0 Spring
* Prerequisite(s): ECE 3730 and University Advanced Standing

Provides the design of hardware and software required for embedded, real-time systems. Covers types of real-time systems, fuzzy logic, sensors, real-time operating systems, C programming skills, and wireless sensor networks. Lab access fee of $35 for computers applies.

ECE 4740 Queuing Theory 3:3:0 Not Offered
* Prerequisite(s): MATH 2040, ECE 3750, and University Advanced Standing

Includes computer systems network modeling using stochastic processes; queuing theory models, performance analysis, resource allocations, large-system response parameters. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 4750 Digital Signal Processing 3:3:0 Fall
* Prerequisite(s): ECE 3770, ECE 3710, and University Advanced Standing

Introduces the theory of digital signal processing and its application to practical problems. Covers z-transforms, discrete-time Fourier transforms, FIR (Finite Impulse Response) and IIR (Infinite Impulse Response) digital filter design. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 4760 VLSI Design 3:3:0 Not Offered
* Prerequisite(s): ECE 3760 and University Advanced Standing
* Corequisite(s): ECE 4765

Focuses on theories and techniques of VLSI design on CMOS technology. Studies the fundamental concepts and structures of designing digital VLSI systems, including CMOS devices and circuits, standard CMOS fabrication processes, CMOS design rules, static and dynamic logic structures, interconnect analysis, CMOS chip layout, simulation and testing, low power techniques, design tools and methodologies, VLSI architecture. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 4765 VLSI Design Laboratory 1:0:2 Not Offered
* Prerequisite(s): ECE 3765 and University Advanced Standing
* Corequisite(s): ECE 4760

Designed to accompany ECE 4760. Teaches students the complete process of building a ready-to-fabricate CMOS integrated circuit using a commercial design software. Lab experiments include the layout design of CMOS transistors, gate level design, design using VHDL, CHIP design and pin configuration, and simulation of the circuit for slack time and power consumption. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 4770 Artificial Neural Networks 3:3:0 Fall
* Prerequisite(s): MATH 1210 and University Advanced Standing

Introduces a range of topics in the field of artificial neural networks: modeling of brains, applicable algorithms, and related applications. Develops the theory of a number of neural network models such as Perceptron, Multilayer Perceptron, and Hopfield networks. Emphasizes algorithms for implementing simple artificial neural networks and their applications. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 4780 Wireless and Mobile Communications 3:3:0 Spring
* Prerequisite(s): MATH 1210 and University Advanced Standing

Covers the fundamentals of analog and digital wireless communications. Includes baseband and bandpass, analog and digital signaling techniques along with appropriate mathematical background in Fourier transforms, probability and random variables. Introduces both software and hardware designs. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 4800 Computer Engineering Senior Design Project 3:3:0 Fall, Spring
* Prerequisite(s): ECE 3740 and University Advanced Standing

Serves as a project-oriented capstone course for computer engineering majors. Emphasizes major hardware and software design. Includes identification and completion of a suitable design project to be mutually selected by the faculty supervisor and student. Requires weekly written and oral presentations as well as a final written project report and an oral presentation. Requires completion of a program level assessment test. Software fee of $10 applies. Lab access fee of $35 for computers applies.

ECE 490R Advanced Current Topics in Computer Engineering 1 to 3:1 to 3:0 On Sufficient Demand
* Prerequisite(s): Department Approval and University Advanced Standing

Provides exposure to emerging technologies and topics of current interest in computer engineering. Varies each semester depending upon the state of technology. May be repeated for a maximum of 6 credits toward graduation without prior written department approval.
Course Descriptions

Edu Child and Family Studies (ECFS)

ECFS 208R
Directed Readings
1 to 4:0:3 to 12  Fall, Spring, Summer
For second-year ECFS students. Includes readings with analysis and discussion of selected topics in child education and family relationships. Requires approval of the department for registration. May be taken for a maximum of four credits.

ECFS 2900
Independent Study
1 to 5:1:0 to 12  Fall, Spring, Summer
Prerequisite(s): Approval of ECFS Department
Provides independent study through faculty-directed individual projects related to working with children and families. Possible areas of study include curriculum, behavior management, program administration, family studies, and case studies in applied theory.

ECFS 3320
Gender Perspectives in Education
3:3:0  Fall, Spring, Summer
Prerequisite(s): University Advanced Standing
For educators, counselors, student teachers, those wanting to recertify, and other interested students. Explores gender issues that may affect the educational experience of girls and boys. Examines history, biases, myths, and stereotypes. Develops sensitivity to issues of gender through discovery learning. Assists participants to recognize cultural and individual issues as they pertain to gender. May be delivered online.

ECFS 4720
Characteristics and Identification of Gifted Students
3:3:0  On Sufficient Demand
Prerequisite(s): Permission of instructor and University Advanced Standing
Designed for senior teacher education students and in-service teachers. Reviews different conceptualizations of intelligence and giftedness and practices and instruments used for identification. Describes characteristics and cognitive, social and developmental needs of gifted students.

ECFS 4730
Teaching Gifted Students
3:3:0  On Sufficient Demand
Prerequisite(s): ECFS 4720, Instructor Permission, and University Advanced Standing
For senior education students and in-service teachers in local schools. Describes the various settings in which gifted students are served. Reviews instructional strategies and assessment appropriate to teaching gifted students, and strategies for dealing with parents.

ECFS 492R
Special Topics in Gifted Education
3:3:0  On Sufficient Demand
Prerequisite(s): (EDEL 3000 or EDSC 3000), Instructor Permission, and University Advanced Standing
Designed for senior education students and local in-service teachers. Includes topics, such as underserved populations of gifted students, contemporary issues in gifted education, creativity, etc. May be repeated 3 times for credit.

ECFS 494R
Special Topics in Educational Psychology
3:3:0  On Sufficient Demand
Prerequisite(s): (EDEL 3000 or EDSC 3000), Instructor Permission, and University Advanced Standing
Explores topics in educational psychology as it relates to classrooms. Includes topics, such as motivation to learn and succeed, classroom application of learning and cognition, role of emotion in learning, etc. Varies each semester. May be repeated 3 times for credit.

Economics (ECON)

ECON 1010
Economics as a Social Science
3:3:0  Fall, Spring
An introductory course which studies the operation of a mixed market system, including production, domestic and global trade, and labor-management economics. Includes business cycles and monetary and fiscal policies designed to modify those cycles. May be delivered hybrid.

ECON 2010
Managerial Economics
3:3:0  Fall, Spring
Prerequisite(s): MATH 1050
Designed for business management transfer students and as elective credit for other business students desiring economic decision-making skills. Covers intermediate microeconomics. Uses lecture, class discussion, videos, student presentations, and computer simulation. Completers should be ready to take university upper-level economics courses and to make upper-level management decisions. May be delivered online. Lab access fee of $32 for computers applies. Canvas Course Mats $68/McGraw applies.

ECON 2020
Microeconomics
3:3:0  Fall, Spring
Prerequisite(s): MATH 1050
Designed for business management transfer students and as elective credit for other business students desiring economic decision-making skills. Covers intermediate microeconomics. Uses lecture, class discussion, videos, student presentations, and computer simulation. Completers should be ready to take university upper-level economics courses and to make upper-level management decisions. May be delivered online. Lab access fee of $32 for computers applies. Canvas Course Mats $68/McGraw applies.

ECON 3010
Intermediate Microeconomics
3:3:0  Fall
Prerequisite(s): ECON 3340 and (MATH 1100 or MGMT 2240 with a B or higher in each), Matriculation into the Woodbury School of Business, and University Advanced Standing
Covers intermediate microeconomic theory for economics and finance majors planning on extending their economics training into econometrics, mathematical economics and other related courses. Reviews microeconomic theory and models to develop an understanding of, and ability to use, modern microeconomic theory, measurement, and policy.

ECON 3020
Managerial Economics
3:3:0  Fall, Spring
Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing
Extends the discussion of economic theory of markets, demand and supply, elasticity, and marginal analysis process to make more effective decisions. Emphasizes an applied approach using basic theoretical concepts. Discusses the concepts of production theory and cost analysis in both the short and long run. Describes how to apply economic decision making in a variety of competitive markets including perfect competition, monopoly, monopolistic competition and oligopoly. Reviews elements of risk and uncertainty in a microeconomic framework. Canvas Course Mats $68/McGraw applies.

ECON 3030
Intermediate Macroeconomics
3:3:0  Spring
Prerequisite(s): (EDEL 3000 or EDSC 3000), Instructor Approval and University Advanced Standing
Extends discussion of models of income determination, economic growth theory, analysis of fiscal and monetary policy theory, international trade issues, and alternative views related to the impact of macro theory in the US and world economies. Prepares economics majors for other advanced economic theory and policy courses.

ECON 3040
Environmental Economics
3:3:0  Not Offered
Prerequisite(s): Instructor Approval and University Advanced Standing
Introduces economic issues of ecological and environmental theory and policy. Identifies the economic tools appropriate for the analysis of ecological and environmental challenges for an inter-disciplinary group of engineering, science, social science, and natural resources management professionals. Presents the microeconomic concepts useful for reviewing these types of issues. Evaluates public policy issues related to environmental, ecological, and natural resource challenges.
Course Descriptions

ECON 305G
International Economics
3:3:0 Spring
* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Covers theoretical and practical concepts of international trade, policy, and finance in a global economy. Reviews both micro topics such as comparative advantage and trade policy as well as macro issues such as balance of payments, exchange rates, and global capital markets. Includes coverage of cultural and intercultural relationships that exist within an economic context.

ECON 3060
Money and Banking
3:3:0 Not Offered
* Prerequisite(s): Matriculation into any Woodbury School of Business program and University Advanced Standing

Studies the US financial system including primary institutions and markets. Includes analysis of the Federal Reserve System, American and International financial markets. Reviews the impact of monetary policy on financial institutions and financial intermediation. Presents the term structure of interest rates, money, capital, and mortgage markets, and management of financial institutions and insurance companies.

ECON 3340
Managerial Statistics
3:3:0 Fall, Spring
* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Studies advanced managerial concepts. Includes multiple regression, ANOVA, test of hypotheses, and time series techniques. Emphasizes statistical modeling, statistical decision-making, and is computation intensive. Lab access fee of $32 for computers applies. Canvas Course Mats $68/McGraw applies.

ECON 3370
Economic Modeling and Quantitative Analysis
3:3:0
* Prerequisite(s): Matriculation into Woodbury School of Business, ECON 3340, and University Advanced Standing

Discusses economic modeling, quantitative methods and applications in economics. Covers intermediate mathematical tools required for economic and financial analysis. Prerequisite course for econometrics.

ECON 3810
Labor Economics
3:3:0 Not Offered
* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Provides an analysis of the theory and practice of labor markets. Defines the factors that influence the demand and supply of labor in a modern economy. Develops the concepts for a theory of human capital. Reviews factors such as wage determination, occupational differences, problems of gender, labor turnover, discrimination, impacts of education and training, impacts of labor unions, immigration, changes in technology, and other related issues. Lab access fee of $32 for computers applies.

ECON 3820
Economic Development
3:3:0 Fall
* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Describes and evaluates economic models of development in third world and emerging economies. Includes a review of theories of economic growth, the importance of creating new economic institutions, the importance of education and human capital development, and the importance of creating stable political and social cultures in the development of modern economic systems. Lab access fee of $32 for computers applies.

ECON 3830
History of Economic Thought
3:3:0 Fall
* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Traces the evolution of formal economic theory primarily beginning with Adam Smith, the first classical economic theorist. Studies other classical writers including Ricardo and Malthus as well as Marx's criticisms. Studies neoclassical analysis through Marshall and the critiques of the Austrian school. Reviews the modern theorists including Keynes and the development of macroeconomics, the development of empirical and mathematical economic theories, monetarism, and other post-Keynesian analysis. Lab access fee of $32 for computers applies.

ECON 4010
Advanced Microeconomics
3:3:0 Spring
* Prerequisite(s): ECON 3010 and University Advanced Standing

Advanced course in microeconomics for economics majors. Addresses the issues related to modern economic theories of imperfect competition, the market of factors of production, cost analysis, the distribution of income, general equilibrium, and welfare economics.

ECON 4020
Advanced Macroeconomics
3:3:0 On Sufficient Demand
* Prerequisite(s): ECON 3030, ECON 3340, and University Advanced Standing

Advanced course in macroeconomics for economics majors. Designed to give economics graduates an understanding of advanced modern macroeconomic theory including traditional macro issues, models with incomplete nominal adjustment, inflation theory, dynamic inconsistency and recent theories of unemployment.

ECON 4040
Game Theory
3:3:0 Not Offered
* Prerequisite(s): ECON 4010, ECON 4320, and University Advanced Standing

Designed to give students the skills to assess economic and social issues where strategic interaction is relevant. Teaches students to condition their responses based on the reactions and behavior of other individuals rather than merely in response to outside constraints, which is the usual approach to optimization theory. Provides concepts, tools, and experience to deal with game theory situations.

ECON 4100
Analysis of Financial Institutions and Markets
3:3:0 Fall
* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Studies money, banking, and financial markets from an economics perspective. Examines the structure of interest rates and their influence in financial markets. Reviews financial instruments, financial intermediaries, banking institutions and the types of assets and liabilities common to those systems. Covers money supply and money demand within the central banking system.

ECON 4150
Public Finance
3:3:0 Spring
* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Designed as elective credit for Business Management and other bachelor of science degree majors. Develops knowledge, skills, and attitudes required for those employed in and analyzing the public sector. Describes the three levels within the public structure including respective purposes and functions, revenue generation alternatives, budgeting, deficit financing, public choice, income redistribution, public goods, and externalities. Lab access fee of $32 for computers applies.

ECON 4320
Mathematical Economics
3:3:0 Fall
* Prerequisite(s): ECON 3340, ECON 3010, and University Advanced Standing

Discusses advanced concepts in economic modeling, the application of mathematical models in economic analysis, and advanced research methods in economics. Covers advanced mathematical applications in economics and finance for students interested in advanced econometric analysis and model building. Lab access fee of $32 for computers applies.

ECON 4340
Econometrics Applications
3:3:0 Spring
* Prerequisite(s): ECON 4320 and University Advanced Standing

Provides an opportunity for economics students with mathematical and statistical skills to apply those capabilities in real-world applications of the science of econometrics. Examines some of the well-known examples of econometric analysis that formed the foundation of econometrics science. Develops analytical skill by defining data inputs and working through a series of projects of the type students might encounter in future professional experience. Lab access fee of $32 for computers applies.
Course Descriptions

ECON 4500
US Economic Development and History
3:3:0 Spring
* Prerequisite(s): Matriculation in the Woodbury School of Business, University Advanced Standing
Provides an analysis of the economic development of the United States. Describes the factors that led to the development of colonies in the Americas and the causes of the Revolution and formation of a government. Describes the economic causes for western expansion, transportation development, and the rise of American capitalism. Reviews the shift from agrarian to industrial development, the economic development of big business and big government, the impact of depression, and the economics of world war and peace. Lab access fee of $32 for computers applies.

ECON 494R
Special Topics in Economics
3:3:0 Not Offered
* Prerequisite(s): Departmental approval and University Advanced Standing
Provides short courses, workshops, and special programs in economics and current business and public policy topics. May be repeated for a maximum of 6 credits toward graduation.

ECON 4960
Senior Seminar Current Economic Issues
3:3:0 Fall, Spring
* Prerequisite(s): Department Chair Approval and University Advanced Standing
Provides exposure to emerging topics of current interest in economics. Topics vary each semester. Lab access fee of $32 for computers applies.

ECON 4970
Economic Research Design and Implementation
3:3:0 Not Offered
* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing
Defines the scientific approach to managerial decision-making and project management. Describes issues related to problem definition, model development, data collection, model implementation using the data, model validation, results analysis, and using the findings to implement changes to solve problems. Examines both quantitative and qualitative models and methods. Allows students to work on real-world projects through the Utah Community Research Group (Utah CRG) and its research partners.

EDEC 2300
Including Young Diverse Learners
2:2:0 Fall
* Prerequisite(s): PSY 1100; ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-
Introduces ECE majors to the implications of diversity and exceptionality in young children. Emphasizes positive impact of diversity in children's educational environment, birth to age eight. Introduces anti-bias strategies to address diversity. Emphasizes inclusive and adaptive strategies for supporting young children with exceptionalities. Ten hour field experience is required.

EDEC 2500
Child Development Birth to Eight Years
3:3:0 Fall, Spring
* Prerequisite(s): PSY 1100; ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-
For Early Childhood students. Emphasizes growth in all domains. Covers milestones of development, supportive parental and care giver behaviors, influence of out-of-home care, role of play, and creating a supportive environment. Includes 15 hours of structured observation, assessment, and interaction with young children.

EDEC 2600
Introduction to Early Childhood Education
2:2:0 Fall, Spring
* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-
For all Early Childhood students. Introduces early childhood program requirements and the field of early childhood education. Focuses on the historical and philosophical foundations of early childhood education emphasizing developmentally appropriate practices, constructivism, and integrated, child-centered curriculum. Introduces students to components that identify quality programs for children birth to 8 years of age.

EDEC 2610
Child Guidance
3:3:0 Fall
* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-
For all Early Childhood majors. Studies development of positive self-concept, social behaviors, empathy, independence, responsibility and effective communication in children. Includes 20 field hours of structured observation, assignments, and interaction with young children.

EDEC 2620
Early Childhood Curriculum
3:3:0 Spring
A core course for Early Childhood students and others interested in working with young children. Covers integrated developmentally appropriate activities, particularly Math, Science, Creative Arts, and Play. Emphasizes lesson plan development, routines and schedules, curriculum philosophies, presentation skills, and resource file development. Uses in-class demonstrations, group interaction, and hands-on participation. Includes curriculum planning to facilitate integration of state core curriculum standards in K-3. Course fee of $10 for materials applies.

EDEC 2630
Literacy and Language for Early Childhood
3:3:0 Fall, Spring
* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-
For Early Childhood students. Introduces practical aspects of fostering literacy development in young children. Focuses on emerging and early literacy in the home, early care, and education settings (infancy through age eight), with an emphasis on ages four through six. Studies strategies for holistic integration of the various literacy processes. Addresses the role of children's literature, the relationship between early language development and literacy opportunities and methods for developing language and positive attitudes toward books.

EDEC 494R
Special Topics in Early Childhood Education
3:3:0 Not Offered
* Prerequisite(s): Departmental approval and University Advanced Standing
Provides short courses, workshops, and special programs in early childhood education and current business and public policy topics. May be repeated for a maximum of 6 credits toward graduation.

EDEC 4970
Economic Research Design and Implementation
3:3:0 Not Offered
* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing
Defines the scientific approach to managerial decision-making and project management. Describes issues related to problem definition, model development, data collection, model implementation using the data, model validation, results analysis, and using the findings to implement changes to solve problems. Examines both quantitative and qualitative models and methods. Allows students to work on real-world projects through the Utah Community Research Group (Utah CRG) and its research partners.

EDEC 5000
Advanced Seminar in Early Childhood Education
3:3:0 Spring
* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program
Provides graduate level introduction to applied regression tools, including simple and multivariate regression analysis; linear, nonlinear, and qualitative dependent variable models; distributed lags; seemingly unrelated regression, and model specification and validation tests.

ECON 6300
Econometrics
3:3:0 On Sufficient Demand
* Prerequisite(s): Acceptance in the MBA program
Provides graduate level introduction to applied regression tools, including simple and multivariate regression analysis; linear, nonlinear, and qualitative dependent variable models; distributed lags; seemingly unrelated regression, and model specification and validation tests.

ECON 6330
Economics for Decision Making
1.5:1.5:0
* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program
Analyzes and employs the most relevant economic concepts, models, and ideas that have widespread application in business. Demonstrates and illustrates how to design appropriate incentives for decision-makers within organizations, as well as how to create wealth.

ECON 6460
ECON 6460
Economics for Decision Making
1.5:1.5:0
* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program
Analyzes and employs the most relevant economic concepts, models, and ideas that have widespread application in business. Demonstrates and illustrates how to design appropriate incentives for decision-makers within organizations, as well as how to create wealth.
EDEC 2700
Early Childhood Practicum
3:3:0 Fall, Spring
* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-, EDEC 2600 with a B- or higher
* Corequisite(s): EDEC 2720
* Prerequisite(s) or Corequisite(s): EDEC 2610 and EDEC 2620

A core course for Early Childhood Education certificate and Associate Degree majors. Provides support teaching experiences in the partnership preschools. Includes planning and implementing learning plans, interactions with and guidance of children individually and in small groups, parent education opportunities, and application of technology. Requires 6 hours per week of assigned field experience with children. Course fee of $25 for materials applies.

EDEC 2720
Early Childhood Assessment
2:2:0 Fall, Spring
* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-, EDEC 2600 with a B- or higher
* Corequisite(s): EDEC 2700
* Prerequisite(s) or Corequisite(s): EDEC 2620


EDEC 3820
Assessment in the PreK-K classroom
3:1:6 Fall, Spring
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): EDEC 2620

Implements assessment with children in a Pre-K or Kindergarten classroom including anecdotal notes, checklists, event sampling, and logs. Connects daily child and program assessment to state and common core kindergarten curriculum planning and implementation. Prepares child portfolio assessment for use in conference with child and parents. Includes personal professional portfolio assessment.

EDEL 2200
Computer Technology in Education
2:2:0 Fall, Spring, Summer
For Elementary Education students and others interested in evaluation, selection, and use of technology for children. Covers limitations of computer applications for children. Provides criteria for selecting software appropriate for children's use and strategies for teaching computer skills to children. Includes hands-on experience with computers. May be delivered online. Lab access fee of $20 for computers applies.

EDEL 2330
Childrens Literature
3:3:0 Fall, Spring, Summer
For Elementary Education students and others interested in children's literature. Evaluates children's books in several genres. Examines selected books, picture books, easy reading and intermediate novels. Studies illustrators and their styles. Includes lecture, demonstration, guest lecturers, and audiovisuals. Completers should have a good knowledge of what is current and of value in literature for children, infancy through adolescence. May be delivered online.

EDEL 3000
Educational Psychology
3:3:0 Fall, Spring
* Prerequisite(s): Admission to Professional Education Program or department chair permission and University Advanced Standing

Stresses research-based teaching/learning principles used in a classroom setting to enhance learning. Includes study of parent education, involvement, and support strategies, and collaboration with community agencies and professionals. Emphasizes the application of theory to practice with emphasis on teacher-student instructional interaction and teacher/parent/community agency interactions.

EDEL 3100
Kindergarten Classroom
2:2:0 Fall, Spring
* Prerequisite(s): (Formal admission to the Elementary Education Program or Department Chair Approval) and University Advanced Standing

Examines the development of the whole kindergarten child and the teacher behaviors that facilitate the development of pro-social behavior, friendships, communication and problem solving skills in young children. Addresses the role of the classroom environment and instructional strategies in the kindergarten classroom that promote development of self-regulation in children. Reviews all domains of the Common Core Curriculum in kindergarten and introduces multiple DAP strategies for teaching each content area using the Teaching Continuum with Direct Instruction and the Gradual Release Model on one end. Scaffolding in the middle, and Inquiry Model on the other end.

EDEL 3250
Instructional Media
2:2:0 Fall, Spring
* Prerequisite(s): EDEL 2200 with a B- or higher, (Formal admission to the Elementary Education Program or Department Chair Approval), and University Advanced Standing

For Elementary Education students. Covers applications of desktop computers and other instructional technologies in classroom settings. Lab access fee of $20 for computers applies.

EDEL 330G
Multicultural Understanding
3:3:0 Fall, Spring
* Prerequisite(s): Admission to Professional Education Program or department chair permission and University Advanced Standing


EDEL 3350
Curriculum Design and Assessment
3:3:0 Fall, Spring
* Prerequisite(s): Admission to Professional Education Program or department chair permission) and University Advanced Standing

For Elementary Education students. A beginning course in curriculum design and assessment of program effectiveness and student achievement. Covers theory and practice.

EDEL 4200
Classroom Management I
1:1:0 Fall, Spring
* Prerequisite(s): Admission to Professional Education Program or department chair permission) and University Advanced Standing

Presents philosophy, trends and necessities of a well-managed classroom. Discusses the role of management and quality instruction.
Course Descriptions

EDEL 4210 Classroom Management II
1:1:0 Fall, Spring
* Prerequisite(s): EDEL 4200 and University Advanced Standing
* Corequisite(s): Admission to Professional Education Program or permission of department chair
Estimates a foundation for selecting a model to follow for the development of a classroom management plan. Considers the role of the teacher and students in developing rules and establishing habits in a classroom setting.

EDEL 4230 Classroom Management III
1:1:0 Fall, Spring
* Prerequisite(s): EDEL 4210 and University Advanced Standing
* Corequisite(s): Admission to Professional Education Program or permission of department chair
Presents strategies for routine management of the classroom environment and materials, and the initial set up of a classroom and management plans. Workday and observation of first day of school in a public school classroom.

EDEL 4240 Classroom Management IV
1:1:0 Fall, Spring
* Prerequisite(s): EDEL 4230 and University Advanced Standing
* Corequisite(s): Admission to Professional Education Program or permission of department chair
Presents strategies for handling student misbehavior. Reviews theory and problem solving processes. Explores practical, appropriate responses, particularly behavior modification strategies with an emphasis on self-monitoring.

EDEL 4400 Literacy Methods I
3:3:0 Fall, Spring
* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing
Presents practical and theoretical foundations for fostering reading competence in children, kindergarten thru grade 3. Includes classroom instruction and field experience with children.

EDEL 4410 Literacy Methods II
3:3:0 Fall, Spring
* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing
Surveys contemporary issues in literacy instruction in the elementary school years (K-6). Includes content area reading, reading assessment and remediation, and current issues being explored in professional literacy journals. Includes classroom instruction and field experiences with children.

EDEL 4420 Language Arts Methods
3:3:0 Fall, Spring
* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing
Presents methods for teaching reading and language art concepts to children, grades K-6. Includes classroom instruction and field experiences with children.

EDEL 443G Teaching English as a Second Language
3:3:0 Fall, Spring
* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing
For Elementary Education students. Presents methods for promoting reading competence and fostering literacy in limited English-speaking children, grades K-6. Prepares teachers to teach English as a second language in U.S. public schools. Covers both theoretical and applied aspects of second language learning and teaching and provides techniques, activities, strategies and resources to plan instruction for English language learners (ELLs). The goal of this class is introduce teachers to the teaching of English as a second language not only for linguistic development, but for cognitive, academic and social development as well. Includes classroom instruction and field experiences with children.

EDEL 4510 Elementary Math Methods I
3:3:0 Fall, Spring
* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing
For Elementary Education students. Presents methods for teaching math concepts to children, grades K-6. Includes classroom instruction and field experiences with children.

EDEL 4520 Elementary Science Methods
3:3:0 Fall, Spring
* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing
For Elementary Education students. Presents methods for teaching science concepts to children, grades K-6. Includes classroom instruction and field experiences with children.

EDEL 4530 Elementary Social Studies Methods
3:3:0 Fall, Spring
* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing
For Elementary Education students. Presents methods for teaching social studies concepts to children. Includes classroom instruction and field experience teaching children.

EDEL 4540 Elementary Creative Arts Methods
3:3:0 Fall, Spring
* Prerequisite(s): (Completion of at least one of the following: ART 3400, THEA 2200, DANC 3400, or MUSC 3400) and (admission to Professional Education Program or department chair permission) and University Advanced Standing
For Elementary Education students. Presents methods for integrating music, art, dance, and drama experiences across the curriculum in grades K-6. Includes classroom instruction and field experiences with children.

EDEL 4550 Elementary Math Methods II
3:3:0 Fall, Spring
* Prerequisite(s): EDEL 4510 and University Advanced Standing
For Elementary Education students. Presents methods for teaching math concepts to children, grades K-6. Includes classroom instruction and field experiences with children.

EDEL 4620 Differentiation for Special Populations
2:2:0 Fall, Spring
* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing
Includes theory and philosophy for teachers working with diverse populations, grades K-6. Covers appropriate practice for teachers working with diverse populations. Outlines strategies of instruction for diverse populations including content, processes, and assessment for instructional application.

EDEL 4880 Student Teaching--Grades K-3
4 to 10:0:12 to 30 Fall, Spring
* Prerequisite(s): Admission to Professional Education Program, Successful completion of all professional education courses, and University Advanced Standing
* Corequisite(s): EDEL 4890
A culminating 12-week teaching experience in an elementary classroom, grades 1-3. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. Must complete a combined 12-week experience in EDEL 4880 &/or EDEL 4890. Course Lab fee of $200 for practical experience applies.

EDEL 4890 Student Teaching--Grades 4-6
4 to 10:0:12 to 30 Fall, Spring
* Prerequisite(s): Admission to Professional Education Program, Successful completion of all professional education courses, and University Advanced Standing
* Corequisite(s): EDEL 4980
A culminating 12-week teaching experience in an elementary classroom, grades 4-6. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. Must complete a combined 12-week experience in EDEL 4880 &/or EDEL 4890. Course Lab fee of $200 for practical experience applies.
EDEL 491R
Independent Study
2 to 4:0 to 4:0 to 12 On Sufficient Demand
* Prerequisite(s): Department Chair Approval and University Advanced Standing

For Bachelor Degree seeking students and other interested persons. Offers independent study as directed at the discretion and approval of the department chairperson. May be repeated for a maximum of 3 credits toward graduation.

EDEL 4980
Elementary Education Capstone Seminar
1:1:0 Fall, Spring
* Prerequisite(s): Admission to Professional Education Program, Successful completion of all professional education courses, and University Advanced Standing
* Corequisite(s): EDEL 4880 or EDEL 4890

Integrates previous course work and current student teaching field experience and includes involvement by school personnel. Covers application and interview procedures for acquiring a teaching position. Includes completion of portfolio for the professional teacher education program. Prepares students for beginning of teaching career. Course fee of $15 for state services & testing applies.

Edu Secondary Education (EDSC)

EDSC 2000
Teacher Education in the Latino Culture
2:2:0 Not Offered
* Prerequisite(s): Departmental Approval

Introduces LET students to the teacher education system. Explores what it means to be a teacher in the Latino culture with emphasis on being a teacher in Utah. Examines general education classes along with teacher education classes in order to help students understand their importance in the education system. Demonstrates the importance of culture and ancestry in teacher education.

EDSC 2010
Content Area Tutoring
2 to 6:1:5 to 25 Not Offered
* Prerequisite(s): Department Chair Approval

For those interested in working for tutorial programs on campus. Includes methodology, theory and practice of tutoring and completers will have met the requirements for CRLA tutor certification. Features experience tutoring students who have a variety of learning styles. Prepares teachers to appropriately train and use tutors for all students under their direction.

EDSC 3000
Educational Psychology
3:3:0 Fall, Spring
* Prerequisite(s): Admission to Professional Education Program and University Advanced Standing

Professional level course for secondary education majors. Stresses research-based teaching/learning principles used in classroom settings to enhance learning. Emphasizes the application of theory to practice. Designed to help the students prepare for state teacher licensing requirements. May be delivered online.

EDSC 3050
Foundations of American Education
2:2:0 Fall, Spring, Summer
* Prerequisite(s): Admission to Professional Education Program and University Advanced Standing

Provides a broad and comprehensive overview of American education. Facilitates the understanding of current educational practices in America as a result of the social, historical, economic, and political forces that have had influence on the education system. Provides opportunities for students to evaluate their own belief system concerning education. May be delivered online.

EDSC 3250
Instructional Media
2:2:0 Fall, Spring, Summer
* Prerequisite(s): Admission to Professional Education Program and University Advanced Standing

Focuses on using technology in 7-12th grade and addresses the integration of technology in all curricular areas for all students. Investigates theoretical and practical issues surrounding the use of multimedia, Internet resources, Web 2.0 functionality, educational software, and social networking within the curriculum. Examines applications and processes of Educational Technology, 21st Century learning skills, and the impact of national educational technology standards for content areas to teacher pedagogy and development in the classroom. Lab access fee of $20 for computers applies.

EDSC 4200
Classroom Management I
2:2:0 Fall, Spring
* Prerequisite(s): Admission to Professional Education Program and University Advanced Standing

For Secondary Education students. Teaches effective classroom management procedures (including classroom setup). Develops strategies to build strong student-teacher relationships and classroom management philosophy, rules, and consequences. Teaches strategies for 1st day success as well as strategies to handle behavior problems encountered in the classroom.

EDSC 4250
Classroom Management II
2:2:0 Fall, Spring
* Prerequisite(s): EDSC 4200, Admission to Professional Education Program and must be taken during student teaching experience, and University Advanced Standing
* Corequisite(s): EDSC 4850

Develops strategies for planning and conducting instruction, dealing with parents, group work, and presents strategies for handling chronic misbehavior and students with behavioral or emotional disorders. Explores practical, appropriate responses, including internal control and behavior modification strategies with an emphasis on self-monitoring. May be delivered online.

EDSC 4440
Content Area Literacies
3:3:0 Fall, Spring
* Prerequisite(s): Admission to the Professional Education Program and University Advanced Standing

For Secondary Education Students. Examines state standards; and prepares preservice secondary students to write objectives, lesson plans, and units using appropriate models of instruction and assessment. Includes a field experience component.

EDSC 445G
Multicultural Instruction ESL
3:3:0 Fall, Spring, Summer
* Prerequisite(s): Admission to Professional Education Program and University Advanced Standing

For Secondary Education students. Prepares pre-service secondary students to understand and facilitate achievement in the content areas for ethnically and language diverse students at the middle school and secondary school level. Covers foundations of multicultural education and instructional methodology for adaptation for ESL and ethnically diverse students.

EDSC 4500
Secondary Teaching Methods
3:3:0 Not Offered
* Prerequisite(s): Acceptance to Professional Secondary Education, EDSC 3000, EDSC 4550, Department Chair Approval, and University Advanced Standing

For students majoring in Secondary Education. Examines teaching methodology as related to teaching and learning. Teaches strategies to prepare teacher candidates for secondary education licensure in relation to a student’s major. Utilizes group projects, classroom exercises and teaching projects. Evaluated by participation, teacher evaluation, exams, portfolio, reflective journal and final teaching project.

EDSC 4550
Secondary Curriculum Instruction and Assessment
3:3:0 Fall, Spring
* Prerequisite(s): Admission to Professional Education Program and University Advanced Standing

For Secondary Education students. Examines state standards; and prepares preservice secondary students to write objectives, lesson plans, and units using appropriate models of instruction and assessment. Includes a field experience component.

EDSC 4850
Student Teaching–Secondary
4 to 10:9 to 12 to 30 Fall, Spring
* Prerequisite(s): Admission to Professional Education Program, Successful completion of all professional education and content courses, and University Advanced Standing

Culminates a thirteen-week teaching experience in a secondary classroom, grades 7-12. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. Requires students to be recommended for a secondary education license from the Utah State Office of Education. Course Lab fee of $200 for practical experience applies.

EDSC 491R
Independent Study
2 to 4:0 to 4:0 to 12 On Sufficient Demand
* Prerequisite(s): Department Chair Approval and University Advanced Standing

For Bachelor Degree seeking students and other interested persons. Offers independent study as directed at the discretion and approval of the department chairperson. May be repeated for a maximum of 4 credits toward graduation.
Edu Special Education (EDSP)

EDSP 3400
Exceptional Students 2:2:0 Fall, Spring, Summer
Covers teacher's roles in integration of exceptional students, working with parents and specialists, and in developing individual educational plans for exceptional students. Identifies characteristics and special needs of students who have physical, emotional, social, mental, or health exceptionalities. Stresses curriculum modification necessary for meeting special needs. Requires students to develop a code of personal ethical behaviors specific to teaching exceptional students. Ten hours of field work required.

Education (EDUC)

EDUC 5100
Personal Finance in Education 3:0 On Sufficient Demand
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Focuses on teaching how to better manage personal finances. Requires students to develop lesson plans on personal financial planning, including goal setting, time value of money, personal financial statements, cash management, credit cards, credit, loans, buying skills, insurance, taxes, housing, investment alternatives, estate and retirement plans.

EDUC 520R
Special Topics in Education 0.5 to 3:0 to 3:0 to 9
Provides professional educators, administrators, policy makers, and interested members of the public with increased understanding of the latest research affecting K-12 education. Focuses on helping participants keep abreast of effective teaching strategies and curriculum design, alternative learning structures, innovative teaching technologies, educational policies and legislation, etc. May be repeated as many times as desired.

EDUC 5300
Content-based Curriculum, Instruction, and Assessment 3:3:0 Summer
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Provides a foundation in curriculum theory and practice. Introduces instructional design theories, principles and models. Outlines the historical development, current processes and practices of curriculum development, instructional design, implementation, and assessment. Examines applications and processes of curriculum decision making and the impact of national standards on curriculum design and development at the classroom, district, state, and national levels. Requires 15 field experience/practicum hours in addition to class time.

EDUC 5340
Methods of Second Language Acquisition for Practitioners 3:3:0 Fall, Spring, Summer
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Prepares teachers to teach content in students' second language in U.S. public schools. Includes applied aspects of second language learning and teaching. Provides general and special educators, and dual language or second language specialists the techniques, activities, strategies, and resources needed to plan instruction for second language learners. Emphasizes the development of teaching skills in language development, literacy, and content-area instruction for K-12 students. Requires 15 hours of field experience/practicum hours as part of course assignments.

EDUC 5350
Theories of Second Language Acquisition for Practitioners 3:3:0 Fall, Spring, Summer
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Examines the intricate web of variables that interact in the second language learning process, including linguistic, cognitive, social, cultural, and political factors. Examines each of these factors in turn and develops understanding of how they work together to foster or inhibit successful second language learning and acquisition. Requires 15 hours of field experience/practicum hours as part of course assignments. Course fee of $15 applies.

EDUC 5360
Multicultural Education for Practitioners 3:3:0 Fall, Spring, Summer
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Identifies the connections between language, culture, and identity. Examines multicultural education in the classroom through a focus on the historical, sociological, and philosophical foundations of education in the development of the United States and its education system. Outlines methods to create multicultural/multilingual curricula with a special focus on culturally/linguistically-responsive instruction and assessment techniques.

EDUC 5370
Assessment for Second Language Learners for Practitioners 3:3:0 Fall, Spring, Summer
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Examines methods and practice for the testing of bilingual students at the classroom level. Focuses on assessment language proficiency in English language learners (ELL) and the assessment of academic achievement of bilingual students in specific content areas. Develops and reviews tasks (test items), response formats, scoring systems, and test administration procedures as critical to attaining validity and fairness. Examines major current testing policies for linguistic minority students. Practicum required. Course fee of $15 applies.

EDUC 5380
Second Language Literacy Development for Practitioners 3:3:0 Fall, Spring, Summer
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Provides teachers with a theoretical framework for understanding literacy and linguistic development of students learning in a second language. Provides an understanding of the literacy instructional needs of these students. Increases knowledge and skill in instructional practices that support second language literacy learning.

EDUC 5390
Family and Community Involvement for Practitioners 3:3:0 Fall, Spring, Summer
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Provides strategies classroom teachers may use for facilitating community participation in the education of minorities. Examines how the teacher's role impacts the adjustment of students to the classroom environment. Studies the techniques of family-school collaboration as well as constructive methods of evaluation. Practicum required. Course fee of $15 applies.

EDUC 5500
Teaching K-8 Numbers and Operations for Practitioners 3:3:0 Fall, Spring, Summer
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Designed for K-8 teachers. Covers the content of Number and Operations to develop a comprehensive understanding of our number system and relate its structure to computation, arithmetic, algebra, and problem solving. Includes number, number sense, computation, and estimation through a coordinated program of activities that develop number concepts and skills. Special attention in this course will be given to planning lessons in the mathematical content of number and operations and problem solving strategies. Emphasizes interpreting and assessing students' work and learning, and the integration of the NCTM process standards and the Utah Intended Learning Outcomes (ILOs). Course fee of $15 applies.

EDUC 5510
Teaching K-8 Rational Numbers and Proportional Reasoning for Practitioners 3:3:0 Fall, Spring, Summer
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Provides practicing teachers a deeper understanding of rational numbers, operations with rational numbers, proportionality, and instructional strategies to facilitate the instruction of this content for elementary students. Course fee of $15 applies.

EDUC 5520
Teaching K-8 Algebraic Reasoning for Practitioners 3:3:0 Fall, Spring, Summer
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Provides practicing teachers a deeper understanding of algebraic expressions, equations, functions, real numbers, and instructional strategies to facilitate the instruction of this content for elementary students. Course fee of $15 applies.
EDUC 5530  
Teaching K-8 Geometry and Measurement for Practitioners  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Provides practicing teachers a deeper understanding of the geometry and measurement content that exists in the state core and instructional strategies to facilitate the instruction of this content. Special attention in this course will be given to applying content understanding in geometry and measurement to classroom practice, interpreting and assessing students' work and learning, and to integrating NCTM process standards and the Utah Intended Learning Outcomes (ILOs) into instruction. Course fee of $15 applies.

EDUC 5540  
Teaching K-8 Data Analysis and Problem Solving for Practitioners  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Develops a firm problem-solving foundation. Using skills and strategies applied in mathematical contexts practicing teachers will learn to think, work with others, present solutions orally to the whole class, and write up detailed solutions. Provides practicing teachers a deeper understanding of probability and data representation and analysis. Special attention in this course will be given to applying content understandings to classroom practice, to interpreting and assessing students’ work and learning, and to integrating NCTM process standards and the Utah Intended Learning Outcomes (ILOs) into instruction.

EDUC 5550  
Teaching K-8 Assessment and Intervention for Practitioners  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Provides practicing teachers a deeper understanding of the various types of assessment and their appropriate use for guiding instruction, intervention, and evaluation of student learning of mathematics content. Special attention will be given to the application of mathematical content understandings to planning for classroom instruction and assessment of student learning that is consistent with NCTM process standards and Utah instructional learning outcomes.

EDUC 5600  
Education of the Gifted and Talented  
3:3:0  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Prepares teachers of GT learners to better understand the field as an evolving and changing discipline influenced by philosophies, research-based principles and theories, relevant laws and policies, cultural and historical points of view, and human issues that influence professional practice, including assessment, instructional planning, delivery, and program evaluation. Explores characteristics of gifted individuals with emphasis on identifying needs and a general overview of possible services for gifted learners.

EDUC 5610  
Social and Emotional Needs of the Gifted  
3:3:0  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Explores current research and material relevant to the social and emotional issues that may arise for gifted and talented students. Develops a deeper understanding of social and emotional issues that students with gifts and talents experience in K-12 classrooms. Requires 15 hours of field experience/practicum hours in addition to class time.

EDUC 5620  
Identification/Evaluation in Gifted Education  
3:3:0  
On Sufficient Demand  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Prepares teachers to use the results of a variety of assessment tools for both identification and learning progress decisions. Defines the processes of identification, legal policies, and ethical principles of measurement and assessment related to referral, eligibility, program planning, instruction, and placement. Requires 15 field experience/practicum hours in addition to class time.

EDUC 5630  
Curriculum and Materials in Gifted Education  
3:3:0  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Prepares teachers to understand societal influences on the development of curricula. Helps students develop long- and short-range units of instruction anchored in both general and special curricula for gifted and talented students, taking into consideration each individual's abilities and needs, the learning environment, and cultural and linguistic factors.

EDUC 5640  
Improvement of Curriculum Instruction in the Content Areas  
3:3:0  
On Sufficient Demand  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Prepares teachers of gifted and talented students with the selection, adaptation, creation, and implementation of differentiated instructional models and strategies, especially those related to fostering creativity. Requires 15 field experience/practicum hours in addition to class time.

EDUC 5650  
Leadership in Gifted and Talented Education  
3:3:0  
On Sufficient Demand  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Prepares teachers to effectively use leadership principles to collaborate with students and their families, other educators, and related service providers to advocate for individuals with gifts and talents as they promote the learning and well-being of individuals with gifts and talents across settings and diverse learning experiences.

EDUC 5660  
Reading Assessments and Instructional Interventions for Practitioners  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Focuses on curriculum-based measurement, the assessment/instructional cycle, and how to use assessment data to design and implement instructional interventions to increase students' reading achievement. Studies the four federal assessment categories: screening, progress monitoring, diagnosis, and outcomes as they may be applied to classroom practice. Describes reading assessments and interventions that are appropriate for the participants' grade level and/or subject matter.

EDUC 5661  
Literacy and Cognition of Reading for Practitioners  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Provides foundational knowledge about literacy instruction. Introduces theories and models of literacy acquisition, a study of language systems and language acquisition, especially as it relates to classroom instruction. Reviews and discusses the instructional directives for teaching that grew out of reading research and the implications for teaching reading across the grade levels and content areas.

EDUC 5662  
Early Literacy Instruction for Practitioners  
3:3:0  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Helps students understand how young children understand literacy. Focuses on developmentally appropriate instruction and the value of play relating to oral and print literacy in kindergarten and the primary grades. Examines literacy development within the larger framework of the communicative arts, i.e., oracy, written expression, reading, spelling, handwriting, listening, the visual and performing arts, and the social community, i.e., family, socioeconomic conditions, culture, ethnicity, language, etc.

EDUC 5663  
Content Area Reading for Practitioners  
3:3:0  
* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education  
Helps practicing teachers develop an in-depth understanding of the, principles and practices related to exemplary, research-based reading and writing instruction in the content areas. Focuses on how to assist all learners to read, understand and learn from nonfiction reading materials. Covers assisting students at all grade levels in their reading of materials and writing of text related to science, social studies, history, math, art, music, etc.
EDUC 5664
Adolescent Literacy for Practitioners
3:3:0
Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Provides teachers of adolescents with concepts, models, and strategies to support adolescent literacy instruction. Familiarizes teachers with practical constructs for understanding adolescent literacy, its importance, how it can be fostered and employed for student learning, how the challenges of adolescent literacy differ from the challenges of early reading instruction, and how systematic interventions can help remediate chronic failure in literacy and learning.

EDUC 5665
Reading Comprehension Instruction for Practitioners
3:3:0  Fall, Spring, Summer
Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Focuses on reading comprehension instruction for specific classroom situations. Emphasizes comprehension strategy instruction, including activating prior knowledge, questioning, analyzing text structure, creating mental or visual images and summarizing. Introduces strategies to help students construct meaning through rich discussions and interactions around a variety of text structures and genres.

EDUC 5666
Effective Writing Instruction for Practitioners
3:3:0  Fall, Spring, Summer
Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Focuses on using effective strategies for teaching writing across the curriculum and for diverse populations. Requires participants to apply the writing process, writing workshop, and interactive writing procedures in their classrooms. Requires participants to assess student work using the Qualitative Spelling Inventory and the Six-Trait Writing Model.

EDUC 5700
Foundations of Dual Language Immersion Education
3:3:0  Fall
Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Presents a historical overview and the theoretical and research foundations for dual language and immersion education. Emphasizes the practical application of theory and research in immersion programs.

EDUC 5710
Instructional Strategies, Curriculum, and Classroom Management for the Elementary Classroom
3:3:0  On Sufficient Demand
Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Designed to acquaint secondary teachers seeking a K-12 Dual Language Immersion (DLI) endorsement with instructional strategies and classroom management for the elementary classroom. Focuses on helping students to understand the elementary curriculum and plan units of instruction, and to build a repertoire of teaching strategies, tasks, and resources for use in the elementary classroom. Requires 15 hours of field experience/practicum hours in a DLI classroom in addition to class time.

EDUC 5800
Cognition, Education and Technology for Practitioners
3:3:0  Summer
Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Examines the increasingly pervasive role of electronic media in educating and socializing young students, especially as it affects the K-12 classroom. Explores the range of content available to these students, their families, and their classrooms and reviews research on the role of media in shaping individual identity and affecting school performance; analyzes public policies that affect teachers and students.

EDUC 5810
Instruction, Curriculum & Educational Leadership in the Digital Age for Practitioners
3:3:0  Spring
Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Examines issues surrounding the use of technology in curricular and instructional design, especially in designing coursework for an online learning environment. Requires students to incorporate appropriate digital media formats to create an online learning environment. Addresses issues of school leadership, as participants may become mentors in the area of educational technology.

EDUC 5820
Designing and Producing Media for Instruction for Practitioners
3:3:0  Summer
Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Helps students produce educational media materials for their particular classroom. Requires students to collaborate with others to design, produce, test, and revise a unique project tailored for their instructional practice. Requires students to use a variety of digital tools to conceptualize, design, fashion, and evaluate media projects.

EDUC 5830
Digital Models of Instruction for Practitioners
3:3:0  Summer
Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Focuses on using instructional design and Web page design principles for specific classroom populations. Examines the best instructional use of online options, including flipped and hybrid course design, and gaming. Requires completion of an instructional design plan for an instructional unit of the participants’ choice for a learner group of their choice.

EDUC 5840
Universal Design for Learning for Practitioners
3:3:0  Fall
Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Focuses on universal design for learning (UDL) that differentiates curricula and learning environments for a wide range of student abilities and disabilities. Requires students to learn to apply the UDL approach in designing differentiated learning experiences for their classrooms using educational technology.

EDUC 5850
Digital Course Design Capstone for Practitioners
3:3:0  Spring
Prerequisite(s): Professional educator license or permission of the Dean of the School of Education
Teaches students to design and create media for content-specific units of instruction. Requires students to use technology specific to a given discipline, and to incorporate instructional design and digital media to create an online unit of study.

EDUC 6100
Research Methodology
3:3:0  Summer
Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean
Introduces the principal methodologies used in research in education. Presents basic information about the purposes of research, the scientific method, and basic qualitative and quantitative research. Identifies methods for locating, reading, interpreting and using research reports and in applying measurement issues and research methods to classroom problems. Investigates teacher research practices and ways it can be used to study teaching and teacher education.

EDUC 6110
Applied Statistics for Education
3:3:0  Summer
Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean
Introduces elementary statistics in educational settings and includes descriptive statistics, sampling, central tendency, and inferential methods. Emphasizes reading, understanding and evaluating statistics in research reports.
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<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>EDUC 6200</td>
<td>Masters Project</td>
<td>3:0</td>
<td>Provides working knowledge of action research methods in the public schools. Sets the standards for the professional M.Ed. action research-based project. Utilizes APA guidelines. Establishes techniques and strategies for successful project completion.</td>
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<tr>
<td>EDUC 6300</td>
<td>Curriculum Design</td>
<td>3:0</td>
<td>Provides a foundation in curriculum theory and practice. Introduces instructional design theories, principles, and models. Outlines the historical development, current processes, and practices of curriculum development, instructional design, implementation, and assessment. Investigates research and theory about educational contexts, motivation, curriculum, learning, and development as they relate to models of instruction. Examinations applications and processes of curriculum decision making and the impact of national standards for content areas to curriculum design and development in classroom and district settings.</td>
</tr>
<tr>
<td>EDUC 6310</td>
<td>Program Assessment</td>
<td>3:0</td>
<td>Focuses on instruction and design. Introduces a range of instructional models, most emphasizing cognition and the processing of information. Focuses on planning and implementing instruction using several selected models.</td>
</tr>
<tr>
<td>EDUC 6320</td>
<td>Instructional Models I</td>
<td>3:0</td>
<td>Provides a second language method. Admissions to the School of Education Masters Degree Program; or permission of the Dean Provides teachers to teach English as a second language in U.S. public schools. Includes both theoretical and applied aspects of second language learning and teaching. Provides general and special educators and second language specialists techniques, activities, strategies, and resources to plan instruction.</td>
</tr>
<tr>
<td>EDUC 6340</td>
<td>Multicultural Education</td>
<td>3:0</td>
<td>Focuses on multicultural education and the impact of national standards for content areas to curriculum design and development in classroom and district settings.</td>
</tr>
<tr>
<td>EDUC 6350</td>
<td>Theories of Second Language Acquisition</td>
<td>3:0</td>
<td>Describes the variables that interact in the second language learning process, including linguistic, cognitive, social, cultural, and political factors. Examines learning a second language as both an individual and social experience. Examines the linguistic, cognitive, psychological, and emotional elements of learning a second language. Defines the interactions between the individual and the contexts in which s/he interacts and then attempts to understand how they work together to foster or inhibit successful second language learning and acquisition.</td>
</tr>
<tr>
<td>EDUC 6360</td>
<td>Assessment of Second Language Learners</td>
<td>3:0</td>
<td>Examines theory, methods, and practice in the testing of bilingual students at both the classroom level and the large-scale level in the context of school accountability. Focuses on assessment of language proficiency in English language learners (ELL) and the assessment of academic achievement of bilingual students in specific content areas. Develops and reviews tests (test items), response formats, scoring systems, and test administration procedures as critical to attaining validity and fairness. Examines testing major current testing policies for linguistic minority students. Practicum required.</td>
</tr>
</tbody>
</table>
Course Descriptions

EDUC 6500
Teaching K-8 Numbers and Operations
3:3:0 On Sufficient Demand
* Prerequisite(s): Admission to School of Education graduate program; professional educator license; or permission of the Dean of the School of Education

Designed for K-8 teachers. Covers the content of Number and Operations to develop a comprehensive understanding of our number system and relate its structure to computation, arithmetic, algebra, and problem solving. Includes number, number sense, computation, and estimation through a coordinated program of activities that develop number concepts and skills. Special attention in this course will be given to how children learn and connect the fundamental concepts of number systems, children's developmental trajectories in the mathematical content of number and operations, how children construct their understanding of various number systems and arithmetic, children's typical error patterns, problem solving strategies, interpreting and assessing students' work and learning, and integration of the NCTM process standards and the Utah Intended Learning Outcomes (ILOs).

EDUC 6510
Teaching K-8 Rational Numbers and Proportional Reasoning
3:3:0 On Sufficient Demand
* Prerequisite(s): Admission to School of Education graduate program, professional educator license; EDUC 6500, or permission of the Dean of the School of Education

Provides practicing teachers a deeper understanding of rational numbers, operations with rational numbers, proportionality, and instructional strategies to facilitate the instruction of this content for elementary students.

EDUC 6520
Teaching K-8 Algebraic Reasoning
3:3:0 On Sufficient Demand
* Prerequisite(s): Admission to School of Education graduate programs; professional educator license; or permission of the Dean of the School of Education

Provides practicing teachers a deeper understanding of algebraic expressions, equations, functions, real numbers, and instructional strategies to facilitate the instruction of this content for elementary students.

EDUC 6530
Teaching K-8 Geometry and Measurement
3:3:0 On Sufficient Demand
* Prerequisite(s): Acceptance to graduate studies in the School of Education; professional educator license, or permission of the Dean of the School of Education

Provides practicing teachers a deeper understanding of the geometry and measurement content that exists in the state core and instructional strategies to facilitate the instruction of this content. Special attention in this course will be given to how children learn and connect the fundamental concepts of geometry and measurement, children's developmental trajectories in this mathematical content, how children construct their understanding of various geometric concepts, children's typical error patterns, problem solving strategies, interpreting and assessing students' work and learning, and integration of the NCTM process standards and the Utah Intended Learning Outcomes (ILOs).

EDUC 6540
Teaching K-8 Data Analysis and Problem Solving
3:3:0 On Sufficient Demand
* Prerequisite(s): Professional educator license; admission to graduate program in the School of Education; or permission of the Dean of the School of Education

Develops a firm problem-solving foundation. Using skills and strategies applied in mathematical contexts practicing teachers will learn to think, work with others, present solutions orally to the whole class, and write up detailed solutions. Provides practicing teachers a deeper understanding of probability and data representation and analysis. Special attention in this course will be given to children's typical error patterns, problem solving strategies, interpreting and assessing students' work and learning, and integration of the NCTM process standards and the Utah Intended Learning Outcomes (ILOs).

EDUC 6550
Teaching K-8 Assessment and Intervention
3:3:0 On Sufficient Demand
* Prerequisite(s): Professional educator license; admission to graduate level in the School of Education; or permission of the Dean of the School of Education

Provides practicing teachers a deeper understanding of the various types of assessment and their appropriate use for guiding instruction, intervention, and evaluation of student learning of mathematics content. Teaches how to screen students for mathematics problems or potential mathematics problems, diagnose students' mathematics strengths and needs, and monitor students' progress to ensure students will make optimal progress in mathematics. Teaches procedures for managing and analyzing assessment data.

EDUC 6560
Reading Assessments and Instructional Interventions
3:3:0 On Sufficient Demand
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Focuses on curriculum-based measurement, the assessment/instructional cycle, and how to use assessment data to design and implement instructional interventions to increase students' reading achievement. Studies the four federal assessment categories: screening, progress monitoring, diagnosis, and outcomes, as well as assessment instruments within the various categories and the 3-tiered model. Focuses on building students' oral language and background knowledge, teaching alphabet knowledge and phonemic awareness, teaching students to use and recognize and use common phonic spelling patterns, building vocabulary, increasing fluency, teaching students to apply comprehension strategies, and fostering students reading engagement. Describes reading assessments and interventions that are appropriate at the primary, intermediate, and secondary levels.

EDUC 6561
Literacy and Cognition of Reading
3:3:0 On Sufficient Demand
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Provides foundational knowledge about literacy instruction, including an historical perspective on reading instruction, an introduction to theories and models of literacy acquisition, a study of language systems and language acquisition, and theories related to the literacy development of people across the lifespan and their instructional implications. Includes the debates and various stances of reading researchers, and the instructional directives that grew out of the research.

EDUC 6662
Early Literacy Instruction
3:3:0 On Sufficient Demand
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Designed to help students understand the history, major perspectives and theories about how young children understand literacy. Focuses on developmentally appropriate instruction and the value of play relating to oral and print literacy in kindergarten and the primary grades. Examines literacy development within the larger framework of the communicative arts, i.e., oracy, written expression, reading, spelling, handwriting, listening, the visual and performing arts, and the social community, i.e., family, socioeconomic conditions, culture, ethnicity, language, etc.

EDUC 6663
Content Area Reading
3:3:0 On Sufficient Demand
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Examines literacy development within the larger framework of the communicative arts, i.e., oracy, written expression, reading, spelling, handwriting, listening, the visual and performing arts, and the social community, i.e., family, socioeconomic conditions, culture, ethnicity, language, etc.

EDUC 6664
Adolescent Literacy
3:3:0 On Sufficient Demand
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Provides practicing secondary teachers with concepts, models, and strategies to support adolescent literacy instruction. Familiarizes teachers with practical constructs for understanding adolescent literacy, its importance, how it can be fostered and employed for student learning, how the challenges of adolescent literacy differ from the challenges of early reading instruction, and how systematic interventions can help remediate chronic failure in literacy and learning. Teaches effective literacy improvement practices that can be realistically implemented in the context of secondary teachers' many demands.
EDUC 6665
Reading Comprehension Instruction 3:3:0  On Sufficient Demand
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Focuses on reading comprehension instruction as the essence of reading. Emphasizes the theoretical foundations that support comprehension such as schema theory and the construction-integration theory. Includes the following five research-supported strategies: activating prior knowledge, questioning, analyzing text structure, creating mental or visual images and summarizing. Teaches how to offer explicit teacher-led comprehension strategy instruction that will lead to helping their students coordinate a set of comprehension strategies. Teaches how to help students construct meaning through rich discussions and interactions around a variety of text structures and genres. Prepares teachers to provide scaffolded support including demonstrations, pictures, diagrams, and collaboration with other students.

EDUC 6666
Effective Writing Instruction 3:3:0  On Sufficient Demand
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Focuses on using effective strategies for teaching writing across the curriculum and for diverse populations. Teaches application of the writing process, writing workshop, and interactive writing procedures in the classroom. Covers the development of orthographic knowledge and how to assess student work using the Qualitative Spelling Inventory and the Six-Trait Writing Model.

EDUC 6800
Cognition, Education and Technology 3:3:0  Summer
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Examines the increasingly pervasive role of electronic media in educating and socializing young students. Explores the range of content available to these students and their families; documents the developing child’s patterns of use and understanding of media; examines theories and methods for assessing media effects; reviews research on the role of media in shaping individual identity and responses to social issues; and analyzes public policies that affect teachers and students.

EDUC 6810
Instruction, Curriculum and Educational Leadership in the Digital Age 3:3:0  Spring
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Examines issues surrounding teachers and the use of technology in curricular and instructional design. Emphasizes designing coursework for an online learning environment. Explores the history and models of instructional design and teaches incorporation of appropriate digital media formats to create an online learning environment. Introduces the integrated nature of Technological Pedagogical Content Knowledge (TPACK) and the National Educational Technology Standards (NETS) as frameworks for identifying and applying the knowledge needed to teach and assess student learning with technology. Addresses issues of leadership, as students may become mentors in the area of educational technology.

EDUC 6820
Designing and Producing Media for Instruction 3:3:0  Summer
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Designed to help students produce educational media materials. Offers students the opportunity to collaborate with others to design, produce, test, and revise a unique project for television, multimedia, the web, mobile applications, video games, radio, photography, or other formats. Teaches the use of a variety of tools and formats, including digital storytelling, video, online research tools, WebQuests, advanced Excel, Google tools, Web 2.0, and GPS. Requires the conceptualization, design, fashioning, and evaluation of media projects. Explores several analytic frameworks drawn from both instructional design and education research.

EDUC 6830
Digital Models of Instruction 3:3:0  Summer
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Focuses on instructional design and Web page design principles. Examines the best instructional use of online options, including flipped and hybrid course design, and gaming. Requires completion of an instructional design plan for an instructional unit of the participants’ choice for a learner group of their choice.

EDUC 6840
Universal Design for Learning 3:3:0  Fall
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Focuses on universal design for learning (UDL) that creates curricula and learning environments that are designed to achieve success for a wide range of student abilities and disabilities. Covers the UDL approach, which takes advantage of advances in the fields of cognitive neuroscience of learning, educational technologies, and multimedia. Teaches how to apply the UDL approach in designing differentiated learning experiences using educational technology.

EDUC 6850
Digital Course Design Capstone 3:3:0  Spring
* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Teaches students to design and create media for content-specific units of instruction. Covers the use of technology specific to a given discipline, and teaches how to incorporate instructional design and digital media to create an online unit of study.

EDUC 6910
Project I 1:0:3  Fall, Spring, Summer
* Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program; Or permission of the Dean and completion of EDUC 6200

Provides instruction regarding writing a formal classroom-based research project proposal to present to the School of Education Graduate Board. Obtain human subject clearance. Course will be graded credit/no credit.

EDUC 6920
Project II 1:0:3  Fall, Spring, Summer
* Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program; Or permission of the Dean and completion of EDUC 6910

Provides support regarding implementation of the classroom-based applied research project. Course will be graded credit/no credit.

EDUC 693R
Project III 1:0:3  Fall, Spring, Summer
* Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program; Or permission of the Dean and completion of EDUC 6920

Provides support regarding completion of a classroom-based applied research project and acceptance of the classroom-based applied project by the School of Education graduate Board. Course will be graded credit/no credit. Repeatable with department approval.

EDUC 694R
Directed Individual Study 0.5 to 3:0.5 to 3:0  Fall, Spring
* Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program or permission of the Dean.

Provides individual instruction for Master of Education students wishing to further their understanding of the field of education. Focuses on individual research regarding instructional methods and/or assessment. May be repeated for a maximum of 6 credits. Graded Credit/No Credit.
Course Descriptions

Engineering Graphics and Design Technology (EGDT)

EGDT 1000
Introduction to Engineering Drawing and Technical Design
2:2:0 Fall, Spring, Summer
Covers basic sketching, instruments and their use, lettering, geometric construction, dimensioning, multi-view drawings, and section views, using CAD (computer-aided drafting) and traditional hand tools. Teaches introductory skills required in several first-year drafting technology courses. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 1010
Electrical-Electronic Drafting
3:3:0 Fall, Spring
Prerequisite(s): EGDT 1000 or equivalent
Introduction to several types of electrical-electronic drawings such as Block, Connection, Logic, Schematic, Wiring, and Panel Diagrams. Introduction to basic DC theory, electricity and electrical terms, including Ohm's law, Watt's law, Logic Truth Tables, Series and Parallel Circuits, and Printed Circuit Board Design, using lectures, projects, worksheets, labs, and drawing assignments. Prepares students for advancement to EGDT 2010. Software fee of $35 for computers applies. Lab access fee of $35 for computers applies.

EGDT 1020
3D Architectural Modeling
3:3:0 Fall, Spring, Summer
Prerequisite(s): EGDT 1000 or equivalent
For Engineering Graphics and Design Technology and Construction Management majors. Utilizes a Building Information Modeling system (BIM) to design 3D architectural models. Covers model design, modeling methods, generation of residential and commercial construction plans and details, building components and systems, and manipulation of model information. Software fee of $35 applies. Lab access fee of $35 for computers applies.

EGDT 1040
Computer Aided Drafting--AutoCAD
3:3:0 Fall, Spring, Summer
Prerequisite(s): EGDT 1000 or equivalent
Teaches drafting using AutoCAD (or other) software system. Includes enough exposure to Windows to create files, read directories, create directories and operate the AutoCAD software as it applies to Windows and Graphics. Uses CAD system to produce, plot, print, check, and correct drawings. Applies other drafting skills and standards. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 1060
MicroStation
2:2:0 Spring
Prerequisite(s): EGDT 1000
Teaches the drafting MicroStation software system in Windows. Drawings are produced, plotted, printed, checked, and corrected on the CAD system. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 1070
3 Dimensional Modeling--Inventor
3:3:0 Fall, Spring
Prerequisite(s): EGDT 1040 with a grade of C- or higher
Teaches basic 3D computer modeling course which emphasizes the development of 3D machine parts, assemblies, and drawings in a constraint-based modeling environment using AutoDesk Inventor. Emphasizes the feature based design process, which simulates actual manufacturing processes with 2D sketching tools and with 3D modeling tools including extrusions, revolutions, sweeps, loops, coils, shells, placed features, patterns, and many others. Also teaches creation of basic multi-part assemblies, constraint-driven assembly animation, and generation of detailed production drawings. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 1071
3 Dimensional Modeling--SolidWorks
3:3:0 Fall, Spring
Prerequisite(s): EGDT 1040 with a grade of C- or higher
Teaches basic 3D computer modeling course which emphasizes the development of 3D machine parts, assemblies, and drawings in a constraint-based modeling environment using SolidWorks. Emphasizes the feature based design process, which simulates actual manufacturing processes with 2D sketching tools and with 3D modeling tools including extrusions, revolutions, sweeps, loops, coils, shells, placed features, patterns, and many others. Also teaches creation of basic multi-part assemblies, constraint-driven assembly animation, and generation of detailed production drawings. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 1080
AutoLisp
2:2:0 On Sufficient Demand
Prerequisite(s): EGDT 1040 with a grade of C- or higher
Teaches basic programming in AutoLisp and AutoLisp files and programs. Includes customization of AutoCAD menus for personal and drafting use. Teaches creating new macros for speeding up repetitive drawing tasks. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 1090
Introduction to Architecture Drafting
3:3:0
Prerequisite(s): EGDT 1040
For non-Engineering Graphics and Design Technology majors and others who wish to explore the field of residential architectural drafting. Covers basic procedures used in the development of residential plans. Includes architectural drafting standards, symbols, and techniques. Uses lectures and text reading assignments related to the drawings and worksheets. Introduces students to the architectural profession and related fields. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 1100
Architectural Drafting
3:3:0 Fall, Spring, Summer
Prerequisite(s): EGDT 1000 or equivalent
For Engineering Graphics and Design Technology majors and others who wish to broaden their basic drafting skills in the field of residential architectural drafting. Covers procedures used in developing a complete set of residential plans. Includes architectural drafting standards and code requirements. Reinforces math skills using dimensioning and estimating exercises. Uses lectures and text reading assignments with related worksheets and drawings. Prepares students for advancement into EGDT 2100 and for entry-level employment in related fields. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 1200
Mechanical Drafting
3:3:0 Fall, Spring
Prerequisite(s): EGDT 1000 or equivalent and EGDT 1070 or EGDT 1071, both with a grade of C- or higher

EGDT 1300
Structural Drafting
3:3:0 Fall, Spring
Prerequisite(s): EGDT 1000 or equivalent and EGDT 1040 both with a grade of C- or higher
Covers fundamentals of structural design. Studies structural steel detailing of beams, columns, braces, templates, marking and numbering systems, bill of materials, welding symbols, and erection drawings to AISC standards. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 1400
Surveying
3:3:0 Fall, Spring, Summer
For people seeking a surveyor's license, civil engineering majors, Engineering Graphics and Design Technology majors, Construction Management majors, and anyone else wishing to learn fundamentals of surveying. Covers history of surveying, mathematics, field notes, measurement and computations, basic surveying instruments and equipment, leveling procedures, bearing computations, topography, mathematical traverse closures, area computations, and basic property surveying. Completers should be able to work in the job entry phase of the surveying field. Course fee of $12 for materials applies. Software fee of $18 applies. Lab access fee of $35 computers applies.
Course Descriptions

EGDT 1600
Technical Math--Algebra
3:3:0 Fall, Spring
* Prerequisite(s): MAT 0920 or equivalent with a "C-" grade or better or appropriate test scores
Covers the basic principles of algebra, geometry, and trigonometry as they relate to problem solving on the job. Includes solving equations, percent, proportion, variation, calculator operations, measurements, formula rearrangement, functions and graphs, and solving right and oblique triangles.

EGDT 1610
Technical Math--Geometry/Trig
3:3:0 Fall, Spring
* Prerequisite(s): EGDT 1600 or equivalent course with a grade of C- or higher
Covers more advanced principles of algebra, geometry, and trigonometry as they relate to problem solving on the job. Includes systems of equations, powers and roots, trigonometry functions, vectors, polynomials, quadratic equations, exponents and radicals, and circle concepts.

EGDT 1720
Architectural Rendering
3:3:0 Fall, Spring
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Discusses how Architectural Rendering plays an important role in the way we view and present the world around us, including: elements in the physical and natural world, as well as the influences human cultures have on our society through the construction of buildings, structures, and other works of man. Introduces the necessary skills and practices required in architectural rendering theory and presentation. Develops skills in perspective, layout, shading, color theory and presentations of interior and exterior architectural rendering projects. Course fee of $25 applies.

EGDT 1810
Principles of Technology
2:1:3 Not Offered
* Prerequisite(s): MAT 0990 Recommended
A course in applied physics for those who plan to pursue careers as technicians or who want to keep pace with the advances in technology. Blends an understanding of basic principles with practice in practical applications. This course is made up of six units, each of which focuses on one of the important physics concepts such as force, work, rate, resistance, energy, and power. Each unit explains how that concept applies to mechanical, fluid, electrical, and thermal systems.

EGDT 2010
Advanced Electrical--CAD
2:2:0 On Sufficient Demand
* Prerequisite(s): EGDT 1010 and EGDT 1040, with a "C-" grade or higher
For second year Drafting Technology majors. Concentrates on the completion of electrical-electronic diagrams using CAD procedures. Those layout procedures studied will include logic and schematic diagrams. Printed wiring board and AC motor control wiring diagram layout from reference schematics will also be covered. Includes a basic introduction to AC electrical theory including inductance and capacitance and their relationship to AC motors and motor controls. Completers should have entry-level skills for an electrical-electronic drafting position. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 2020
Descriptive Geometry
3:3:0 Fall, Spring
* Prerequisite(s): EGDT 1000 or equivalent and EGDT 1040 both with a grade of C- or higher
Required for Engineering Graphics and Design Technology majors. Elective for engineering majors or others interested in graphical problem solving. Teaches advanced orthographic projection principles used to render view of objects from any conceivable direction. Instructs students in the creation of views needed to solve problems graphically rather than mathematically. Solutions include true length and angle, true size and shape, clearance, bearing, slope and grade, intersections, shortest distance, dished angle, and revolution. Use of accurate scaling techniques is reinforced. Problems are completed either manually or using CAD. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 2040
Piping Drafting
2:2:0 Fall, Spring
* Prerequisite(s): EGDT 1040 with a grade of C- or higher
Includes single-line and double-line pipe symbols. Covers both isometric and orthographic projection. Studies piping connections such as welded, screwed, soldered, flanged, and bell and spigot. Uses manufacturer's and reference materials specifications. Includes information on copper tubing and brass fittings. Uses hydraulic theory and formulas. Also uses computer (CAD) to develop drawings. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 2050
Plate Layout
2:2:0 Fall, Spring
* Prerequisite(s): EGDT 2020 with a grade of C- or higher
A continuation of Descriptive Geometry (EGDT 2020). Patterns are made of rolled or folded surfaces such as bins, hoppers, duct work, ventilation pipes, tanks, storage containers, etc. Patterns are also made for pipe end cuts, pipe intersections, transition pieces and twist angles. Emphasizes three types of pattern development: (1) parallel line, (2) radial line, (3) triangulation. Includes practical problems in finding the line of intersection between surfaces and drawing patterns. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 2100
Advanced Architectural
3:3:0 Fall
* Prerequisite(s): EGDT 1100 and EGDT 1020 both with a grade of C- or higher
Covers the layout, detailing, dimensioning, and room identification of a commercial floor plan in a 3D Architectural software. Includes completing a door and window schedule, a furnishing plan, a reflected ceiling plan, building sections, a roof plan, and exterior elevations. Covers the sketching of common details along with discussions on the various methods and materials used in commercial construction. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 2200
Advanced Mechanical
3:3:0 Spring
* Prerequisite(s): EGDT 1200 and (EGDT 1070 or EGDT 1071) all with a grade of C- or higher
Employs 3D modeling software to enhance design processes, including sketching, parametric modeling, 3D assemblies, and producing 2D working drawings. Included are sheet metal, structural parts, mass property, and stress analysis. Course fee of $10 for materials applies. Software fee of $18 applies. Lab access fee of $35 computers applies.

EGDT 2300
Advanced Structural--CAD
3:3:0 Spring
* Prerequisite(s): EGDT 1300 and (MATH 1060 or EGDT 1610) both with a grade of C- or higher
A second year class for students who have completed first year structural drafting and want to enhance their knowledge of structural steel detailing. Includes the proper views and dimensioning practices for columns, stairways, handrails, cross-bracing, anchor bolt layout, erection drawing, and field bolt lists. Completers should be ready for entry-level employment as a structural steel detailer for small detailing companies or large construction companies. Software fee of $18 applies. Lab access fee of $35 computers applies.

EGDT 2310
Structural Steel Modeling
3:3:0 Spring
* Prerequisite(s): EGDT 1040 and EGDT 1300 both with a grade of C- or higher
Teaches Tekla Structures modeling software. Includes modeling of structural steel buildings, hoppers, stairs, piping, and miscellaneous steel projects. Prepares students for detail and erection drawings which are produced for fabrication and erection of structural steel projects. Software fee of $18 applies. Lab access fee of $35 computers applies.

EGDT 2400
Surveying Applications
3:3:0 Fall
* Prerequisite(s): EGDT 1400 and (EGDT 1600 or MATH 1060) both with a grade of C- or higher
Covers advanced concepts in the U.S. Public Land and State Plane Coordinate systems. Utilizes advanced surveying instruments such as total station, automatic level, GPS equipment, and data collectors. Covers advanced leveling procedures, volume computations, monumentation, mapping, boundary surveys, and route surveys. Features the writing of legal property descriptions. Builds upon knowledge of safe surveying procedures. Includes use of surveying calculation softwares. Covers advanced level calculations and highway staking. Completers should be able to work as an instrument person on survey crews and also prepare the drawings related to the surveys. Course fee of $12 for materials applies. Software fee of $18 applies. Lab access fee of $35 computers applies.
Course Descriptions

EGDT 2500 3 Dimensional Modeling--Civil 3D  3:3:0  Spring
* Prerequisite(s): EGDT 1040, EGDT 1400
Introduces design workflow of typical civil engineering firms. Employs functions of Autodesk Civil 3D application software for civil design and modeling. Includes Digital Terrain Models (DTMs), street alignments, plan and profiles, grading, and utilities/piping design and drafting. Focuses on the development of a full set of civil engineering improvement plans for a residential subdivision. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 2600 Statics  3:3:0  Fall, Spring
* Prerequisite(s): MATH 1060 or EGDT 1610 both with a grade of C- or higher
For students preparing for the second year design classes. Covers the basic principles of statics, coplanar force systems, coplanar-concurrent force systems, and noncoplanar-concurrent force systems. Prepares students for entry-level employment as a design drafter in structural, architectural, and mechanical drafting.

EGDT 2610 Strength of Materials  3:3:0  Fall, Spring
* Prerequisite(s): EGDT 2600 with a grade of C- or higher
Studies strength of materials dealing with direct stress in compression, tensile, and shear. Also covers engineering materials and their properties dealing with stress and deformation, centroids, moments of inertia, section modules, tension and the calculations of beams, girders and columns under various loading conditions. Includes calculations to determine the deflection in beams and girders under various load conditions.

EGDT 2710 Special Problems--Mechanical  2:2:0  On Sufficient Demand
* Prerequisite(s): EGDT 2200 with a grade of C- or higher
An advanced course in mechanical layout and design using solid modeling techniques. Students, with approval, may design and layout projects of their choice. Final details are fabricated in the machine shop. Lab access fee of $35 for computers applies.

EGDT 2720 Special Problems--Surveying  2:2:0  On Sufficient Demand
* Prerequisite(s): EGDT 2400 and (MATH 1060 or EGDT 1610) both with a grade of C- or higher
For people seeking a surveyor's license, civil engineering, drafting and construction management majors. Covers instrument maintenance and calibration, basic photogrammetry and surveying for photogrammetry, mine surveying, construction surveying, resection, and legal aspects of land surveying. Completers should have job skills for surveying and civil technology. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 2730 Special Problems--Civil Drafting  2:2:0  Spring
* Prerequisite(s): EGDT 1400 with a grade of C- or higher
For people seeking a surveyor's license or intended Civil Engineering and Engineering Graphics and Design majors desiring a civil drafting emphasis. Covers preparation of drawings associated with surveying and civil engineering and design. Projects include: property surveys and subdivision design, geotechnical investigations, wastewater treatment, storm drains, highway design, topographic mapping, earthen and concrete dams, and NICET certifications. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 2740 Special Problems--Architectural  2:2:0  On Sufficient Demand
* Prerequisite(s): EGDT 1100 with a grade of C- or higher
A special problems course in architectural drafting. Teaches how to layout and detail a floor plan using a 3D modeling package. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 2750 Special Problems--Architectural Rendering  2:2:0  On Sufficient Demand
For students who wish to develop additional architectural rendering skills to enhance their job performance. Covers theory of perspective, laying out a building perspective from blueprints, inking techniques to develop a finished rendering, and quick coloring methods for ink renderings. Course fee of $10 for materials applies.

EGDT 2760 Special Problems--Structural  2:2:0  On Sufficient Demand
* Prerequisite(s): EGDT 1300 with a grade of C- or higher
Provides opportunities for in-depth study in structural steel drafting. Teaches beam sizing and selection for design drawing. Requires a special class project with complete objectives and goals outlined and presented to the instructor for approval. Emphasizes project documentation. Computer graphics are an important part of this course. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 2780 Special Problems--Electrical  2:2:0  On Sufficient Demand
* Prerequisite(s): EGDT 1010 with a grade of C- or higher
For students who wish to advance beyond EGDT 1010 through the development of an outside project which incorporates advanced theory and drawing procedures. The instructor will review project outline to ensure that it meets course objectives and will monitor student progress, establishing progressive goals. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 281R Cooperative Work Experience  1 to 8:0 to 40  Fall, Spring, Summer
* Prerequisite(s): EGDT 1010, EGDT 1040, EGDT 1070 or EGDT 1071, EGDT 1020, EGDT 1100, EGDT 1200, EGDT 1300, and EGDT 1400, all with a C- or higher
For drafting students to receive actual-on-the-job work experience. Requires work assignments to be set up with businesses and industries who are involved in drafting and design, construction, or manufacturing. Eight credits may apply toward graduation. May be graded credit/no-credit.

EGDT 2850 Cooperative Correlated Instruction/ Orientation  0.5:0.5:0  Fall
Designed to orient the student to opportunities offered by the school, department, community, and industry, and to assist cooperative work experience. Time is spent on the importance of working and communicating with others.

EGDT 2860 Cooperative Correlated Instruction/ SkillsUSA  0.5:0.5:0  Spring
SkillsUSA is a first-year class for Engineering Graphics and Design Technology majors. Includes leadership training, parliamentary procedure, job interview techniques, prepared speaking, extemporaneous speaking, and organizational skills. Upon completion, the student should understand the SkillsUSA organization and how it helps to build leadership skills.

EGDT 2870 Portfolio and Career Preparation  1:1:0  Fall, Spring
Required for Engineering Graphics and Design Technology majors. Teaches necessary job acquisition skills. Instructs students in the job search process, including production of typical types of correspondence, job interview techniques, and creation of presentation-quality portfolios. Correspondence includes letters of application, resumes, follow-up letters, letters of acceptance and rejection, and references. Interview techniques include interview preparation, appearance, and question/answer techniques. Final project is portfolio of samples of work in all areas of Engineering Graphics & Design Technology learned for the degree. Software fee of $18 applies. Lab access fee of $35 for computers applies.

EGDT 3500 Advanced Civil Drafting and Design  3:3:0
* Prerequisite(s): [(EGDT 1040 or EGDT 1060) and EGDT 1400 each with a grade of C- or higher] and University Advanced Standing
Covers the analysis, design and preparation of drawings associated with the surveying and civil engineering fields. Exposes the student to the NICET certification process. Focuses on GPS and GIS technologies to acquire design data. Develops a working knowledge of the Utah Department of Transportation Standard Plans and Specifications. Projects include: property surveys, topographic mapping, subdivision design, geotechnical investigations, Water and Wastewater Treatment Plants, storm drainage, highway design, traffic flow diagrams, and earthen and concrete dams. Lab access fee of $35 for computers applies.
Introduction to Writing
3:3:0 Fall, Spring
* Prerequisite(s): Appropriate test scores taken within the last three years or completion of ENGL 1000 with a grade of C- or higher.

Teaches rhetorical knowledge and skills, focusing on critical reading, writing, and thinking. Introduces writing for specific academic audiences and situations. Emphasizes writing as a process through multiple drafts and revisions. Includes major essay assignments, writing and collaboration, research writing, journals, and portfolios. Honors sections challenge the student to take more qualitatively substantive and/or advanced approaches to course content and assignments. Lab access fee of $7 for computers applies.

Intermediate Writing--Humanities/Social Sciences
3:3:0 Fall, Spring
* Prerequisite(s): Appropriate ACT test scores taken within the last three years or completion of ENGL 1010 or ENGL 101H with a grade of C- or higher.

Emphasizes academic inquiry and research in the humanities and social sciences. Explores issues from multiple perspectives. Teaches careful reasoning, argumentation, and rhetorical awareness of purpose, audience, and genre. Emphasizes critical reasoning, effectively integrating, and properly documenting sources. In addition to major essay assignments, may include in-class writing and collaboration, an annotated bibliography, oral presentations, and portfolios. May be delivered hybrid and/or online. Lab access fee of $7 for computers applies.

Intermediate Writing--Humanities/Social Sciences
3:3:0 Fall, Spring
* Prerequisite(s): Appropriate test scores taken within the last three years or completion of ENGL 1010 or ENGL 101H with a grade of C- or higher.

Teaches rhetorical knowledge and skills, focusing on critical reading, writing, and thinking. Introduces writing for specific academic audiences and situations. Emphasizes writing as a process through multiple drafts and revisions. Includes major essay assignments, writing and collaboration, research writing, journals, and portfolios. May be delivered hybrid and/or online. Lab access fee of $7 for computers applies.

Writing for Social Change
3:3:0 Fall
* Prerequisite(s): ENGL 2010 or ENGL 2020 or instructor/advisor approval

Introduces theories and strategies of persuasion to help students understand and use basic tools of civic literacy, including critical thinking, reading, and writing. Through analysis of sample texts, reading of scholarly works, engagement with activist rhetoric resources, class discussion, and written assignments, students will learn to use writing to engage with complex social issues in contemporary culture. Includes analysis and production of texts such as letters to the editor, opinion-editorials, writing for non-profit organizations, and political speeches. Additionally students may interact with activist rhetorics through digital media (i.e., blogs, social networking venues).
Course Descriptions

ENGL 2040  Introduction to Writing Studies  3:3:0  Spring
* Prerequisite(s): ENGL 2010 or ENGL 2020
Introduces the academic discipline of Writing Studies by surveying the major historical developments in the field since its inception. Discusses contemporary concepts and methods available for study of the composing process. Examines the importance of writing as a social and communicative skill. Emphasizes the teaching of writing as a skill that may increase a student's opportunities for employment. Includes workshops, presentations, portfolios, and researching and composing a substantive semester project.

ENGL 2050  Editing  3:3:0  Fall, Spring
* Prerequisite(s): ENGL 1010
Covers the essentials of editing manuscripts for publication. Provides students with the necessary knowledge of punctuation, grammar and usage as well as the symbols and conventions of editing. Lab access fee of $7 for computers applies.

ENGL 2120  Fantasy Literature  3:3:0  Fall
* Prerequisite(s) or Corequisite(s): ENGL 1010
Surveys major fantasy authors from the 19th century to the present. Teaches key elements of the genre, including world creation, character, and significant themes. May include a creative writing component.

ENGL 2130  Science Fiction  3:3:0  Spring
* Prerequisite(s): ENGL 1010
* Corequisite(s): ENGL 1010
Presents a chronological survey of major Science Fiction authors from Mary Shelley (1818) to the present. Emphasizes the importance of character, setting, plot, and scientific ideas in analyzing literature. Uses discussion, lectures, videos, and films to help students increase appreciation for the literary genre and its works. Completers will have a better understanding of science fiction, plus enhanced writing skills.

ENGL 2150 (Cross-listed with: CINE 2150)  Critical Introduction to Cinema Studies  3:2:3  Spring
* Prerequisite(s): ENGL 2010 or ENGL 2020
Studies film as an aesthetic and cultural medium. Teaches the fundamentals of film, including narrative form, mise en scene, cinematography, editing, sound, and non-narrative forms. Teaches film analysis, including ideological approaches, and considers film as a cultural institution. Includes discussion, lecture, film screenings, papers, and tests.

ENGL 217G (Cross-listed with: CINE 217G, COMM 217G)  Race Class and Gender in US Cinema  3:2:2  Fall
* Prerequisite(s): ENGL 1010
Raising cultural awareness through aesthetic, critical, and interdisciplinary examination of the evolution of the representation of race, class, and gender in American cinema. Focuses on both Hollywood and independent minority filmmakers. Some films screened may carry an 'R' rating.

ENGL 2200  Introduction to Literature  3:3:0  Fall, Spring, Summer
* Prerequisite(s): ENGL 1010
Introduces literary appreciation. Teaches criticism and terminology as applied to various types of literature, including fiction, poetry, and drama. Uses discussion, lecture, films, videos, and tests. May be delivered online.

ENGL 2210  Introduction to Folklore  3:3:0  Spring
* Prerequisite(s): ENGL 1010
* Corequisite(s): ENGL 1010
Introduces the study of folklore. Presents the dynamics of the traditional expressions of a variety of folk groups. Emphasizes folklore performance and its cultural context. Provides practical experience in folklore collection. $7 course fee for computers applies.

ENGL 2230  Myths and Legends in Literature  3:3:0  Fall, Spring
* Prerequisite(s): ENGL 1010
* Corequisite(s): ENGL 1010
Introduces students to myths and legends that are the foundation of literature. Uses discussion, storytelling, videos, journals, and portfolios.

ENGL 223H  Myths and Legends in Literature  3:3:0  On Sufficient Demand
* Prerequisite(s): ENGL 1010
Provides a thorough foundation for the study of classical mythology; explores common myth themes through guided research and projects in world myth; analyzes myth through a variety of theoretical perspectives. Focuses on lecture, discussion, written and oral presentations, myth analysis, exams, and papers.

ENGL 2250  Creative Process and Imaginative Writing  3:3:0  Fall, Spring, Summer
* Prerequisite(s): ENGL 1010 with a grade of C- or higher
Introduces students to the basic literary elements of writing short fiction, drama, creative non-fiction, poetry, or combinations of these. Uses readings from a wide range of contemporary authors, guest speakers, workshops, and student writing to enhance the techniques and aesthetics of creative writing. Lab access fee of $7 for computers applies.

ENGL 225H  Creative Process and Imaginative Writing  3:3:0  Fall, Spring
* Prerequisite(s): ENGL 1010 with a grade of C- or higher
Introduces students to the basic literary elements of writing short fiction, drama, creative nonfiction, poetry, or combinations of these. Uses readings from a wide range of contemporary authors, guest speakers, workshops, and student writing to enhance the techniques and aesthetics of creative writing. Smaller class size to facilitate increased student interaction and inquiry. Lab access fee of $7 for computers applies.

ENGL 2300  Shakespeare  3:3:0  Fall, Spring, Summer
* Prerequisite(s): ENGL 1010
* Corequisite(s): ENGL 1010
For General Education students and English majors. Introduces several Shakespeare plays with particular attention to analysis and critical review of Shakespeare's works. Teaches comprehension of Shakespeare's works and their continued cultural stature. Explores aspects of dramatic performance and a selection of Shakespeare's poetry. May include discussion, lectures, films, papers, examinations, and attending or performing in plays or scenes from plays. Completers should be able to interpret Shakespearean literature and explain the relationship of Shakespeare's works to the world of today. May be delivered online.

ENGL 230H  Shakespeare  3:3:0  On Sufficient Demand
* Prerequisite(s): ENGL 1010
For General Education students and English majors. Introduces several Shakespeare plays with particular attention to analysis and critical evaluation of Shakespeare's works. Teaches comprehension of Shakespeare's works and their continued cultural stature. Explores aspects of dramatic performance and a selection of Shakespeare's poetry. May include discussion, lectures, films, papers, examinations, and attending or performing in plays or scenes from plays. Completers should be able to interpret Shakespearean literature and explain the relationship of Shakespeare's works to the world of today.

ENGL 2310  Technical Communication  3:3:0  Fall, Spring, Summer
* Prerequisite(s): ENGL 1010
For Technical Communication minors and those interested in improving their professional and technical communication knowledge and abilities. Emphasizes clear and concise written, oral, and visual communication strategies. Includes creation of professional documents such as technical descriptions, proposals, correspondence, and other work-related communication in both print and electronic media. Lab access fee of $7 for computers applies.
ENGL 2510 American Literature before 1865 3:3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 1010
* Corequisite(s): ENGL 1010
Surveys American essays, letters, biographies, fiction, and poetry up to 1865. Studies literature as a reaction to American and world events and to the general condition of the American people through discussion, lecture, videos, and writing. May be delivered hybrid.

ENGL 2520 American Literature after 1865 3:3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 1010
* Corequisite(s): ENGL 1010
Surveys American essays, letters, biographies, fiction, drama, and poetry from 1865 to the present. Studies literature as a reaction to American and world events and to the general condition of the American people through discussion, lecture, videos, and writing.

ENGL 2600 Critical Introduction to Literature 3:3:0 Fall, Spring, Summer
* Prerequisite(s): Completion of ENGL 2010 or ENGL 2020 with a grade of C- or higher and University Advanced Standing
Surveys contemporary critical, theoretical, and ideological approaches to literature (such as structuralist, poststructuralist, psychoanalytical, feminist / gender, Marxist, new historical, postcolonial, etc.). Introduces key literary terms and engages close reading techniques. Includes lectures, screenings, student presentations, analyses and written reports, exams, and a final essay in MLA format and documentation. Required for English majors. Should be taken early in major.

ENGL 2610 British Literature before 1800 3:3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 1010
* Corequisite(s): ENGL 1010
Presents a survey of British literature with emphasis on the most important works of the best writers from 450-1800 A.D. Introduces Old English, Middle English, Renaissance, and Neo-Classic British literature. Uses discussion, lecture, films, videos, tests, and papers.

ENGL 2620 British Literature after 1800 3:3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 1010
* Corequisite(s): ENGL 1010
Introduces British Romanticism, Victorianism, Modernism, and post-Modernism. Emphasizes important works of the best writers from approximately 1800 to the present. May include discussion, lecture, videos, films, tests, and papers.

ENGL 2730 Introduction to Gender Studies 3:3:0 On Sufficient Demand
* Prerequisite(s): ENGL 2010 or ENGL 2020
Analyzes gender from an interdisciplinary model. Explores such issues as the definition of masculinity and femininity, the function of gender roles and stereotypes, and what it means to have sexed bodies and minds. Analyzes questions of gender through the different frameworks of literature, anthropology, sociology, history, biology, psychology, and philosophy.

ENGL 276R Themes in Literature 3:3:0 Fall, Spring
* Prerequisite(s): ENGL 1010
Analyzes specific themes/topics in literature (generic or other). Requires reading and study of representative works. Includes short papers, tests and presentations. Possible course themes are: horror, fantasy, nonfiction, detective fiction, and western American literature, among others. May be repeated for up to 6 credits toward graduation.

ENGL 281R Internship 1 to 8:0:5 to 40 Fall, Spring, Summer
* Prerequisite(s): Approval of Cooperative Coordinator
Designed for English majors. Provides experience in the student's major. Students who receive credit for an internship must establish learning objectives with their Faculty Sponsor at the beginning of their internship and reflect on their learning through academic work (i.e. papers, journal, etc.). Students are required to submit an evaluation of their experience at the end of the semester. Credit is determined by the number of hours a student works during the semester. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

ENGL 290R English Scholarly Forum 1:1:0 On Sufficient Demand
* Prerequisite(s): ENGL 2010 or ENGL 2020
Requires attendance at academic campus events of student's choice (conferences, lectures, colloquia, symposia, workshops, reading groups, etc.) and composing reflective, written assignments. Includes informal meetings with instructor at the beginning and end of the course. May be taken three times for credit.

ENGL 299R Independent Study 0.5 to 3:0 to 12 Fall, Spring, Summer
Provides independent study as directed in reading and individual projects at the discretion and approval of the Dean and/or Department Chair. Limited to three credits toward graduation with an AS/AA degree.

ENGL 3000 Professional Considerations for the English Major 1:1:0 Fall, Spring, Summer
* Prerequisite(s): Completion of ENGL 2010 or ENGL 2020 with a grade of C- or higher and University Advanced Standing
Discusses various career choices for English majors. Familiarizes students with curricular emphases and department faculty. Emphasizes internships and other activities available to help majors professionalize. Features a regular rotation of English faculty guest speakers. English majors must take the course as early as possible, no later than their junior year.

ENGL 3010 Rhetorical Theory 3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) with a grade of C- or higher and University Advanced Standing
Considers prominent theories of rhetoric and accompanying methods for the production of texts in various contexts, encouraging adopting, amending, and developing hybrid theories of rhetoric.

ENGL 3020 Modern English Grammars 3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ENGL 2010 or ENGL 2020) with a grade of C- or higher and University Advanced Standing
Explores language structures, discovering connections between grammar (linguistic structure) and language uses (discourse and/or rhetoric). Writing intensive. Includes the study of and practice in informed decision making in the process of developing language structures (grammatical choices) appropriate to a particular rhetorical aim.

ENGL 3030 Writing in the Disciplines 3:3:0 Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Focuses on analysis and production of texts appropriate to a particular discipline (several kinds of disciplinary writing will be studied, modeled, and practiced). Teaches rhetorical knowledge and skills and emphasizes summarizing, paraphrasing, quoting, critical analysis, synthesizing ideas, and interrogating multiple perspectives. Includes written, oral, visual, and other modes of communication. Requires the completion of a portfolio. Lab access fee of $7 for computers applies.

ENGL 3040 History of the English Language 3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) with a grade of C- or higher and University Advanced Standing
Introduces historical origins of the English language and changes that produced our present speech in its many dialects, creoles and pidgins. Combines linguistic and rhetorical histories. For all English majors and others interested in the origins of our language and how it has grown and continues to change.
ENGL 3050 Advanced Editing and Design for Print Media 3:3:0 Fall, Spring * Prerequisite(s): [ENGL 2010 or ENGL 2020 or Instructor Approval] and University Advanced Standing; ENGL 2050 recommended Refines student editing, design, and publishing skills. Provides students with the opportunity to take manuscripts from editing to press-ready. Teaches industry standards for state-of-the-art publishing tools using hands-on projects such as designing books and marketing literature/ corporate identities. Topics include design, typography, and prepress issues as they relate to writing and editing documents. Recommended for students involved with student publications, including journals and campus newspaper. Lab access fee of $7 for computers applies.

ENGL 3060 (Cross-listed with: HUM 3060) Visual Rhetoric 3:3:0 Fall * Prerequisite(s): [ENGL 2010 or ENGL 2020] and University Advanced Standing Investigates the growing academic and cultural interest in the rhetorical nature of visual texts. Teaches critical thinking about the consumption and productions of images and multimodal texts. Explores visual grammar and other theories of visual rhetoric as articulated by contemporary image, language, and rhetoric scholars. Encourages the development of theoretical and practical knowledge through reading, discussion and analysis as well as through the production of visual texts and written work.

ENGL 3070 Public Rhetorics and Popular Media 3:3:0 Spring * Prerequisite(s): [ENGL 2010 or ENGL 2020] with a grade of C- or higher and University Advanced Standing Investigates the structure and nature of rhetorical arguments present in popular and public discourse. Studies texts in mediums such as advertising, blogs, film, social networking venues (i.e., Facebook, Twitter), television, websites, and YouTube through specific rhetorical theories of public communication. Examines arguments regarding the complex nature of public ethos, particularly in the contexts of existing, emergent, and future digital identities. Teaches critical thinking about public rhetorics and popular media to inform consumption and production of public texts in multiple disciplines and contexts. Includes reading, discussion, analysis and production of public rhetorics through conventional and new media methods.

ENGL 3090 Academic Writing for English Majors 3:3:0 Fall, Spring, Summer * Prerequisite(s): ENGL 2600 with a grade of C- or higher and University Advanced Standing * Corequisite(s): ENGL 3000 Recommended Centers on scholarly research and writing in fields related to English Studies, drawing on students’ areas of focus. Emphasizes analysis, rhetorical theories of writing, development, style, oral presentations, and primary and secondary research techniques. Prepares students to extend their abilities with researched writing in other upper-division courses and teaches students advanced scholarly attitudes toward researched writing. Lab access fee of $7 for computers applies.

ENGL 3110 (Cross-listed with: THEA 3110, COMM 3110) Non-Fiction Cinema History 3:2:3 On Sufficient Demand * Prerequisite(s): ENGL 2150 and University Advanced Standing Surveys the history of non-fiction/documentary film from 1896 to the present. Includes study of early pioneers from Flaherty's NANOOK OF THE NORTH to the current trend of reality television and popular documentaries. Some films screened may carry an "R" rating.

ENGL 314G (Cross-listed with: THEA 314G, COMM 314G) Global Cinema History 3:2:3 On Sufficient Demand * Prerequisite(s): [ENGL 2150 or THEA 1023] and University Advanced Standing Studies the evolution of global film styles, movements, stars, and genres with a focus on international cinema chronologies outside the United States. Some films screened may be considered controversial and carry an "R" rating.

ENGL 3160 Intermediate Creative Nonfiction Writing 3:3:0 Fall, Spring * Prerequisite(s): [ENGL 2250 or ENGL 225H] and ENGL 2600 each with a C- or higher] and University Advanced Standing Teaches the skills and processes of a variety of styles of playwriting presented through textual analysis of written plays and play attendance. Includes workshops, lectures, discussions, and a final revised portfolio of original dramatic works.

ENGL 3300 Collaborative Communication for Technology Professions 3:3:0 Fall, Spring, Summer * Prerequisite(s): [ENGL 2150 or ENGL 2150] and University Advanced Standing Teaches technical communication skills and methodologies in demand by business and industry. Provides collaborative experience in the development of a professional caliber, team-oriented project, using suitable technology. Teaches writing and editing skills and integration of textual and visual rhetorics through effective design practices. Emphasizes primary and secondary research and usability testing. Lab access fee of $7 for computers applies.

ENGL 3310 Digital Document Design 3:3:0 Fall * Prerequisite(s): [ENGL 2150 or ENGL 225H] and University Advanced Standing Teaches web-based document design and other digital genres. Introduces HTML, CSS, and industry standard tools. Emphasizes rhetorical differences between digital and print documents and focuses on the collaborative and viral nature of web texts. Requires collaboratively written web-based documentation with a community partner. Lab access fee of $7 for computers applies.

ENGL 3340 Intermediate Fiction Writing 3:3:0 Fall, Spring * Prerequisite(s): [(ENGL 2250 or ENGL 225H) and ENGL 2600 each with a C- or higher] and University Advanced Standing Implements a variety of intermediate techniques for generating, writing, and revising stories for publication and public readings, along with readings in theory and fiction. Lab access fee of $7 for computers applies.

ENGL 3350 Play Writing for Creative Writers 3:3:0 On Sufficient Demand * Prerequisite(s): [(ENGL 2250 or ENGL 225H) and ENGL 2600 each with a C- or higher] and University Advanced Standing Teaches the skills and processes of a variety of styles of playwriting presented through textual analysis of written plays and play attendance. Includes workshops, lectures, discussions, and a final revised portfolio of original dramatic works.

ENGL 3340 Intermediate Poetry Writing 3:3:0 Fall, Spring * Prerequisite(s): [(ENGL 2250 or ENGL 225H) and ENGL 2600 each with a C- or higher] and University Advanced Standing Provides practices and techniques for generating, writing, and revising original poetry. Includes poetry readings, memorizations, and submission of original poetry to literary journals. Focuses on contemporary poetry and critical theories associated with contemporary poetry.

ENGL 3350 Intermediate Creative Nonfiction Writing 3:3:0 Fall, Spring * Prerequisite(s): [(ENGL 2250 or ENGL 225H) and ENGL 2600 each with a C- or higher] and University Advanced Standing Provides intermediate instruction for writing nonfiction prose. Explores and provides practice in various categories of nonfiction, including, for example, narrative, memoir, interpretive reporting, found text, and experimental forms. Addresses the stylistic and compositional challenges of transforming experience into writing.
ENGL 3460
Wilderness and Environmental Writing
3:3:0 Fall
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Introduces students to the literary conversation of appreciation and responsibility for our natural world and teaches them how to engage meaningfully in that conversation. Requires (1) extensive readings in literature of the natural world, including scientific, polemic, creative non-fiction, and fiction writing modes bearing on environmental stewardship and (2) a writing portfolio that includes polemic, creative non-fiction, fiction, and poetry. Includes discussion of assigned readings and workshopping of student manuscripts. Requires overnight wilderness field trips; students with disabilities will be accommodated on field trips.

ENGL 3510
Early American Literature
3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2510 or ENGL 2520), both with a grade of C- or higher and University Advanced Standing

Examines selected authors and themes in American literature from its beginnings through the 1820s. Locates texts within their cultural and historical contexts. Explores multiple genres, including autobiography, essay, poetry, drama, and fiction. Requires discussion, presentations, informal and formal writing, and exams.

ENGL 3520
Literature of the American Renaissance
3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2510 or ENGL 2520), both with a grade of C- or higher and University Advanced Standing

Studies American literary works during the Romantic period (1830-1870). Authors may include Hawthorne, Melville, Poe, Emerson, Thoreau, Douglass, Jacobs, Stowe, Whitman, and Dickinson. Locates the contribution of both canonical and lesser-known authors within cultural and historical contexts. Requires informal and formal writing, presentations, and exams.

ENGL 3525
American Literary Realism and Naturalism
3:3:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2510 or ENGL 2520), both with a grade of C- or higher and University Advanced Standing

Studies literature associated with the American realist and naturalist movements between the Civil War and the early twentieth century, by authors such as Mark Twain, Henry James, Kate Chopin, Theodore Dreiser, and Edith Wharton. Explores aesthetic and philosophical issues encountered by authors who attempt to depict social and natural environments realistically.

ENGL 3530
Modern American Literature
3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2510 or ENGL 2520), both with a grade of C- or higher and University Advanced Standing

Studies modern American literature (c. 1900-1945) in relation to intellectual and historical developments. Emphasizes important works by major writers responding to radical changes in America brought on by shifting demographics, artistic experimentation, and world war. Involves lecture, discussion, presentations, written assignments, and exams.

ENGL 3540
Contemporary American Literature
3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2510 or ENGL 2520), both with a grade of C- or higher and University Advanced Standing

Studies significant authors, themes, and topics in American literature (c. 1945 to present) in relation to historical and intellectual developments and contemporary literary theory. Explores multiple genres, including fiction, poetry, drama, and film. Involves lecture, discussions, presentations, written assignments, and exams.

ENGL 357G
Native American Literature
3:3:0 Fall
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Surveys a wide range of Native American literature. Examines the cultures and identities of Native Americans through the study of literary texts including mythology and works by contemporary writers such as N. Scott Momaday, Leslie Marmon Silko, Louise Erdrich, and Sherman Alexie, among others.

ENGL 3610
Medieval Literature
3:3:0 Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2510 or ENGL 2520), both with a grade of C- or higher and University Advanced Standing

Studies selected authors. May include Defoe, Swift, Pope, Johnson, Thompson, Gray, Collins, Goldsmith, Montague, Burney, and others. Includes lectures, discussion, oral presentations, papers, and tests.

ENGL 3530
Stuart British Literature
3:3:0 Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher and University Advanced Standing

Covers major authors, works, and themes from the Stuart period (Jacobean, English Civil War, and Restoration eras). Studies selected authors. May include Shakespeare, Jonson, Lanyer, Donne, Wroth, Herbert, Herrick, Vaughan, Marvell, Cavendish, Philips, Milton, Behn, and Dryden. Discusses relevant cultural, philosophical, and historical aspects of the period. Includes lectures, discussion, oral presentations, films, journal or response writing, and papers.

ENGL 3640
Restoration and 18th Century British Literature
3:3:0 Fall
* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher and University Advanced Standing

Covers major authors and works from the Augustan and Johnsonian eras of British literature, including literary, political, historical, religious, and social trends and ideas. Studies selected authors. May include Defoe, Swift, Pope, Johnson, Thompson, Gray, Collins, Goldsmith, Montague, Burney, and others. Includes lectures, discussion, oral presentations, papers, and tests.

ENGL 3650
Romantic British Literature
3:3:0 Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher and University Advanced Standing

Surveys major authors and works from the Augustan and Johnsonian eras of British literature, including literary, political, historical, religious, and social trends and ideas. Studies selected authors. May include Defoe, Swift, Pope, Johnson, Thompson, Gray, Collins, Goldsmith, Montague, Burney, and others. Includes lectures, discussion, oral presentations, papers, and tests.

ENGL 3655
Victorian British Literature
3:3:0 Fall
* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher and University Advanced Standing

Covers major authors, works, and themes from the Victoriana (approx. 1830-1900) by authors including Dickens, Tennyson, Eliot, the Brownings and Rossettis, Hardy, and Wilde. Examines historical and philosophical trends that shaped the era's literature and were shaped by it. Involves lecture, discussion, small group work, audiovisual presentations, examinations, and writing.
ENGL 3660  
Modern British Literature  
3:3:0  
Spring  
* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher.  
Explores modern British literature (c. 1900-1945) in relation to intellectual and historical developments. Emphasizes the literature of empire and of the world wars, modernist experimental writing, and reactions against modernism. Involves lectures, discussion, audiovisual presentations, written assignments, and exams.

ENGL 3670  
Contemporary British Literature  
3:3:0  
Fall  
* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher and University Advanced Standing  
Explores contemporary British literature (1945-present) in relation to intellectual and historical developments. Emphasizes modern and postcolonial writing alongside traditional forms that, together, characterize recent British literature. Involves lectures, discussion, audiovisual presentations, written assignments, and exams.

ENGL 3710  
Literature by Women  
3:3:0  
Spring  
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing  
Provides a substantive framework of important critical issues regarding literature by and about women. Studies applications of feminist critical theory to fiction, poetry, personal essays, or drama written by women. Requires oral presentations or discussions by students, written reports, and exams.

ENGL 3730  
Literature of Cultures and Places  
3:3:0  
Fall, Spring  
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing  
Studies one of the literatures that has developed using the English language but that are based on nations other than England or the United States (such as Canada or India) or in cultures within the British Isles or North America that are defined by ethnic or religious culture or by geography (such as African-American, Mormon, Southern, or Irish). May survey the literature of the culture or region as a whole or focus on representative works. May be repeated twice with different designations. Uses lectures, discussion, visiting writers, videos, tests, and papers.

ENGL 374G  
Literature of the Sacred  
3:3:0  
Fall  
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing  
Focuses on reading and interpreting primary texts of Hinduism, Buddhism, Judaism, Christianity, Islam, and others emphasizing resonances of these texts in later works of literature. Discusses texts from a literary standpoint within the genre of "religious writings." Requires reading, informal and formal writing, and tests.

ENGL 376G  
World Literature  
3:3:0  
Spring  
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing  
Studies selected works of World Literature from a variety of authors, geographic regions, or time periods. Introduces cultures and ideas of world literature. Focuses on careful, critical readings on a particular region or culture, time period, or author or closely related authors.

ENGL 3780  
Mormon Literature  
3:3:0  
Spring  
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing  
Surveys the foundations of Mormon literature as expressed through short fiction, novels, personal essays, drama, history and criticism. Includes readings, quizzes, presentations, papers, and exams.

ENGL 3790  
Contemporary LGBT/Q Literature  
3:3:0  
On Sufficient Demand  
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing  
Addresses interrelated issues of gender, ethnicity, geography, and social class. Surveys literary, historical, critical, and cultural texts that reflect the diversity inherent among sexually marginal communities in the United States. Includes, but is not limited to works of fiction (primarily novels and short stories), drama, poetry, film and visual art.

ENGL 3820  
History of Literary Criticism  
3:3:0  
Spring  
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing  
Explores rhetorical strategies and philosophical ideas influencing the reading and writing of literary texts from Plato and Aristotle to the present. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

ENGL 3890  
Contemporary Critical Approaches to Literature  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): Completion of ENGL 2600 with a grade of C- or higher and University Advanced Standing  
* Prerequisite(s) or Corequisite(s): ENGL 3090  
Provides in-depth study of one contemporary theoretical and critical approach to literature using primary texts. Explicates how interpretive techniques function within the discipline of English Studies. Includes lectures, screenings, student presentations, assigned readings, written reports, exams and a research essay that employs MLA documentation. Required for English majors. Should be taken beginning of junior year.

ENGL 401R  
Topics in Rhetoric  
3:3:0  
Fall, Spring  
* Prerequisite(s): (ENGL 2010 or ENGL 2020) with a grade of C- or higher and University Advanced Standing  
Examines advanced topics in rhetoric and writing (instructor designates specific semester focus). Studies writing's central role in education, communication, and culture. Emphasizes discourse communities and genres. Analyzes how writing constructs meaning in academic, professional, media, and personal texts. Situates writing as an instrument for community engagement and service learning. Requires a substantive semester research and writing project. May be repeated for a maximum of 6 credits toward graduation. May be delivered online.

ENGL 412R  
Studies in Literary Genres  
3:3:0  
Fall, Spring  
* Prerequisite(s): ([ENGL 2250 or ENGL 225H] and ENGL 2600 each with a C- or higher) and University Advanced Standing  
Examines various literary genres, with a different focus each semester. May be repeated with different topics for a maximum of 9 credits toward graduation.

ENGL 414R (Cross-listed with: THEA 414R)  
Special Topics in Cinema History  
3:2:3  
On Sufficient Demand  
* Prerequisite(s): ENGL 2150 and University Advanced Standing  
Focuses study on a specific U.S. or international period or movement. Representative topics may include German Expressionism, Italian Neorealism, New Hollywood Cinema, and etc. May be repeated for a maximum of 9 credits toward graduation. Some films screened may carry an "R" rating.

ENGL 416R (Cross-listed with: THEA 416R, CINE 416R)  
Special Topics in Film Studies  
3:3:0  
On Sufficient Demand  
* Prerequisite(s): ENGL 2150 or CINE 2150 or THEA 1023) and University Advanced Standing  
Covers cinema directors, genre, theory, and social change on a rotating basis. Explains course focus, defines terminology involved, then studies evolution and/ or specific texts or contexts, and considers theoretical discourse. May be repeated for a maximum of 9 credits toward graduation. Some films screened may carry an "R" rating. Course fee of $40 for support applies.

ENGL 4210  
Methods in Teaching Literary  
I 3:3:0  
Fall, Spring  
* Prerequisite(s): [ENGL 2600 and (ENGL 3010 or ENGL 3020 or ENGL 3040)] and University Advanced Standing  
Explores issues related to teaching English in secondary schools. Focuses on using the Common Core State Standards (CCSS) to design engaging units in each of the core strands: Reading, Writing, Speaking and Listening, and Language. Focuses on curriculum design, including teaching methods and assessment. Entails class discussion, field observations, and creation of teaching materials.
ENGL 4220
Methods in Teaching Literacy II
3:3:0 Fall, Spring
* Prerequisite(s): ENGL 4210 and University Advanced Standing
Continues to explore issues and research in language arts and further develops teaching skills through reading and discussion, classroom observation, creating teaching materials, and participation in teaching demonstrations. Preparatory to student teaching for English Secondary Education students.

ENGL 4230
Methods in Teaching Literacy III Teaching the Conventions of Writing
3:3:0 Fall, Spring
* Prerequisite(s): ENGL 4210 and University Advanced Standing
* Prerequisite(s) or Corequisite(s): EDSC 4550
Emphasizes developing a writing program in the secondary English classroom, including assigning and assessing student writing. Presents strategies for teaching writing to secondary students, as outlined in the Common Core State Standards (CCSS), which have been adopted by the Utah Office of Education. Includes designing lessons for each of the modes specified in the CCSS; Argument, Instructive/Explanatory, and Narrative writing. Integrates the six-trait model, with specific focus on teaching Conventions. Entails class discussion, micro-teaching, and creation of teaching materials.

ENGL 4250
Adolescent Literature
3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Engages secondary education majors and other interested students in the study of literature written explicitly for adolescent readers. Explores attitudes towards adolescence as a distinctive psychological, social and moral state using contemporary and time-honored works from various cultures. Particular attention paid to contemporary adolescent issues, history of young adult literature, value instruction, and the role of young adult literature in the literacy development process.

ENGL 4290
Advanced Technical Communication
3:3:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and ENGL 2310 and University Advanced Standing
Continues work begun in previous technical communication courses. Introduces advanced theory to critically reflect upon workplace genres and values to situate technical communication into broader political and global contexts. Teaches user-centered document design. Introduces advanced topics in technical communication, including financial, environmental, medical writing, science writing, and ethical issues in technical writing. May be taken twice with different topics. Lab access fee of $7 for computers applies.

ENGL 4420
Advanced Fiction Writing I
3:3:0 Fall
* Prerequisite(s): ENGL 3420 and University Advanced Standing
Applies a variety of advanced techniques for generating, writing, and revising fiction which includes readings in form, theory, and published works, with an emphasis on workshop and writing for publication and public readings. Lab access fee of $7 for computers applies.

ENGL 4425
Advanced Fiction Writing II
3:3:0 Spring
* Prerequisite(s): ENGL 4420 and University Advanced Standing
Applies a variety of advanced techniques for writing and especially revising fiction which includes readings in form, theory, and published works, with an emphasis on workshop, revising, and preparing for publication, public readings, and graduate school.

ENGL 4440
Advanced Poetry Writing I
3:3:0 Fall
* Prerequisite(s): ENGL 3440 and University Advanced Standing
Provides further practices and techniques for generating, writing, and revising original poetry. Includes poetry readings, memorizations, workshopping, and submission of original poetry to literary journals. Focuses on contemporary poetry and critical theories associated with contemporary poetry.

ENGL 4445
Advanced Poetry Writing II
3:3:0 Spring
* Prerequisite(s): ENGL 4440 and University Advanced Standing
Puts into practice a variety of techniques for writing and especially revising original poetry. Includes poetry readings, memorizations, workshopping, and submission of original poetry to literary journals. Focuses on contemporary poetry and critical theories associated with contemporary poetry. Includes workshop methodology.

ENGL 4450
Advanced Creative Nonfiction Writing I
3:3:0 Fall
* Prerequisite(s): ENGL 3450 and University Advanced Standing
Provides advanced instruction for writing nonfiction prose. Explores and provides practice in various categories of nonfiction, including, for example, narrative, memoir, interpretive reporting, found text, and experimental forms. Addresses the stylistic and compositional challenges of transforming experience into writing.

ENGL 4455
Advanced Creative Nonfiction Writing II
3:3:0 Spring
* Prerequisite(s): ENGL 4450 and University Advanced Standing
Provides advanced instruction in revising, editing, and preparing Creative Nonfiction manuscripts for submissions in well-selected quality venues. Provides practice in finishing work previously shaped in ENGL 4450 and ENGL 4450. Addresses challenges of style, balance, compositional complexity, tradition, and experimentation.

ENGL 4570
Studies in the American Novel
3:3:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Surveys the "great American novel," providing historical, regional, and cultural perspectives of one of the richest genres in literary history.

ENGL 4620
Chaucer
3:3:0 Not Offered
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Studies selected works by Chaucer investigating selections primarily from The Canterbury Tales, with some use of Chaucer's other major and minor poetry. Considers context of cultural and historical perspectives of the Middle Ages. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

ENGL 463R
Topics in Shakespeare
3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Examines various topics related to Shakespeare's works. May include study of his genres, poems, sonnets, theater, and/or relevant cultural and historical aspects of his times. May use lectures, discussions, group work, oral presentations, papers, tests, and film. May be repeated for a maximum of 6 credits for graduation with different topics.

ENGL 4640
Milton
3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Surveys John Milton's major prose and poetry, including an intensive study of "Paradise Lost," placed in context with the important social, political, and religious trends of his time. May include lectures, discussion, oral presentations, papers, tests, and films.

ENGL 471R
Eminent Authors
3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Introduces important works of eminent authors. Emphasizes forms of literary expression and place in the historical development of world literature. Studies relevant cultural and historical aspects of the authors' milieu. Includes lectures, discussions, oral presentations, films, tests, and papers. May be repeated twice with different topics.
ENGL 473R
Topics in Gender Studies
3:0:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020), ENGL 2600, and University Advanced Standing
Focuses student reading, research, and discussion on specific areas of concentration within the field of gender studies. (Specific areas of focus may change as the instructor and his or her focus or expertise changes.) Analyzes how gender affects and is affected by culture, ideology, socio-economic factors, history, etc. Possible course focuses include: Gender and Popular Culture, Gender and the Canon, and Gender in Literary Theory, among others. May be repeated for up to 6 credits toward graduation.

ENGL 474R
Topics in Folklore
3:3:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2210 or instructor/advisor approval) and University Advanced Standing
Studies one folk genre, one folk group, or one theme which crosses genres and/or groups. Students will collect folklore related to topic under discussion. Uses discussion, readings, folk events, and students’ writings. May be repeated twice with different topics.

ENGL 476G
Multi-ethnic Literature in America
3:3:0 Fall
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Surveys multi-ethnic literature reflecting the rich diversity inherent in American experience. Includes but is not limited to works by Native American, Hispanic American, Asian American, African American authors.

ENGL 481R
Internship
1 to 3:0:0 to 40 Fall, Spring, Summer
* Prerequisite(s): Department Chair, Instructor Approval, and University Advanced Standing
Culminates with submission of a reflective portfolio to the department. Lab access fee of $7 for computers applies.

ENGL 488H
English Honors Seminar
3:3:0 Not Offered
* Prerequisite(s): (ENGL 3090 and ENGL 3890) and University Advanced Standing
Emphasizes rigorous analysis and synthesis of topics in British and American literature, rhetoric, and writing, with specific content varying by semester. Uses a seminar approach to enable significant participation by students through discussion, presentations, and written analyses.

ENGL 490R
Directed Readings
1 to 3:0:3 to 9 Fall, Spring, Summer
* Prerequisite(s): Department Chair, Instructor Approval, and University Advanced Standing
Reading and writing assignments designed in consultation with a faculty member to meet special needs or interests not available through regular course work. May be repeated twice for a total of up to 9 credits.

ENGL 4950
Senior Seminar
3:3:0 Fall, Spring
* Prerequisite(s): ENGL 3000, ENGL 3090, and ENGL 3890, all with a grade of C- or higher and University Advanced Standing
Senior Seminar recommended. Explores the value and relevance of an English degree. Professionalizes students by assisting them with career or graduate school preparation. Offers students the opportunity to reflect on their major and to optimize writing and communication skills. Includes revision of an existing paper as a scholarly writing sample and creation of a professional portfolio to display knowledge and abilities. Culminates with submission of a reflective portfolio to the department. Lab access fee of $7 for computers applies.

ENGL 499H
Honors Thesis
3:3:0 Not Offered
* Prerequisite(s): University Advanced Standing
Serves as the second half of the thesis experience for English Honors. Operates as an independent study. Continues the research begun in ENGL 498H. Requires students to write a high-quality, publishable/presentable senior thesis. Requires defense of the thesis and its method before a committee of three faculty.

ENGR 1030
Introduction to Electro-Mechanical Systems Design
3:3:0 Fall, Spring
* Prerequisite(s): ENGR 1000
* Corequisite(s): MATH 1210
Continuation of ENGR 1000 for designing electro-mechanical systems. Involves modelling and analysis of electro-mechanical systems using Arduino and Matlab. Includes data acquisition of experimental results, numerical modelling of actuators and sensors, and using micro-controllers. Course fee of $11 for supplies/materials applies.
### ENGR 2010 Engineering Statics 3:3:0 Fall, Spring  
* Prerequisite(s): MATH 1210  
  * Corequisite(s): PHYS 2210 recommended  
  Teaches principles of engineering mechanics as applied to bodies at rest. Discusses the concepts of position and force vectors, free body diagrams, equilibrium, center of gravity, centroids, distributed loading, friction, area and mass moments of inertia. Applies principles learned in the analysis of trusses, frames and machines. Lab access fee of $35 for computers applies.

### ENGR 2030 Engineering Dynamics 3:3:0 Fall, Spring  
* Prerequisite(s): ENGR 2010, MATH 1220, and PHYS 2210  
  Teaches principles of engineering mechanics as applied to bodies in motion. Studies kinematics and kinetics of particles and rigid bodies. Develops the concepts of force and acceleration, work, energy, impulse, momentum, impact, and vibration. Utilizes theory and methodology developed in the solution of practical engineering problems. Lab access fee of $35 for computers applies.

### ENGR 2140 Mechanics of Materials 3:3:0 Fall, Spring  
* Prerequisite(s): ENGR 2010 and PHYS 2210  
  Studies behavior of materials under axial, torsional, flexural, transverse shear and combined loading conditions. Analyzes nature of stress and strain for ductile and brittle materials, stress and strain diagrams, stress concentration, and failure of materials. Includes analysis of repeated and dynamic loading, and basic design techniques related to above topics. Lab access fee of $35 for computers applies.

### ENGR 2160 Introduction to Materials Science and Engineering 3:3:0 Fall  
* Prerequisite(s): CHEM 1210  
  Introduces students to properties of materials from macro and micro point of view. Includes failure analysis of materials, altering properties of materials, and fracture mechanics. Introduces properties of solid materials and their behavior as applied to engineering.

### ENGR 2300 Engineering Thermodynamics 3:3:0 Spring  
* Prerequisite(s): MATH 1220, PHYS 2210  

### ENGR 2450 Computational Methods for Engineering Analysis 3:3:0 Spring  
* Prerequisite(s): ENGR 1030  
  Discusses computational and symbolic methods for the solution of complex engineering problems. Discusses computer representation of numbers and algorithm error analysis. Covers the solution of algebraic and differential equations. Includes the use of modern software tools. Lab access fee of $35 for computers applies.

### ENGR 295R Special Topics 1 to 3:1 to 3:0 On Sufficient Demand  
* Prerequisite(s): Permission of Department Chair  
  Presents various engineering topics. Examines current technology, techniques, processes and equipment. Includes oral and written reports. May be repeated for a maximum of 3 credits toward graduation.

### Environmental Studies (ENST)  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Offered</th>
<th>Prerequisite(s)</th>
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<th>Notes</th>
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<tr>
<td>ENST 3000</td>
<td>Introduction to Environmental Studies</td>
<td>3:3:0</td>
<td>Fall</td>
<td>University Advanced Standing</td>
<td></td>
<td>Explores the complex relationships of culture, technology, and nature within an interdisciplinary framework of the natural sciences, social sciences, business, and humanities. Addresses the integration of humanity and nature in the age of globalization.</td>
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</table>
| ENST 3520   | Environmental Sociology | 3:3:0 | On Sufficient Demand | SOC 1010 and ENGL 2010 or ENGL 2020 with a C+ grade or higher | | Explores in detail several different approaches to understanding the social causes of and solutions to environmental degradation. Discusses the development of a wide variety of theory-based critiques of various social institutions (e.g., economic, political, religious) and how these institutions' values can create and perpetuate unsustainable practices.
| ENVT 1200   | Environmental Worker Safety | 3:3:0 | Fall | | | Discusses safety laws, training requirements, and the use of personal protective equipment. Covers management of a safety program and development of a safety culture. |
| ENVT 1210   | Introduction to Water Reclamation | 3:3:0 | Fall | | | Covers the basic processes used to treat wastewater including primary treatment, biological treatment, and chemical treatment processes. Offers excellent preparation for the state license exam. |
| ENVT 1270   | Environmental Microbiology | 3:3:0 | On Sufficient Demand | MICR 2060 recommended | | For water managers, public health workers, and environmental managers. Discusses the role microorganisms in water treatment, wastewater treatment, agriculture, environmental change, and others. |
| ENVT 1300   | Environmental Lab and Sampling | 3:2:3 | Spring | | | Studies basic laboratory techniques used by labs working on environmental projects. Covers safety, pH, dissolved oxygen, BOD, turbidity, organs, and others. Includes opportunities for undergraduate research. Course Lab fee of $38 for supplies/materials/lab applies. |
| ENVT 1360   | Introduction to Water Treatment | 3:3:0 | Spring | | | Covers coagulation, sedimentation, filtration, water sources, sampling, disinfection, and regulations. Introduces the equipment used to treat water. Discusses the prevention of disease through effective treatment. |
| ENVT 1510   | Hazardous Materials Emergency Response | 3:3:0 | Spring | | | Meets the requirements for the OSHA 40 hour training. Includes personal protection, identifying hazardous materials, spill control, and incident management. Completers may obtain OSHA certification for handling hazardous materials. Course fee of $28 for materials applies. |
| ENVT 1700   | Hazardous Materials Emergency Response | 3:3:0 | Fall | | | | |
| ENVT 2560   | Environmental Health | 3:3:0 | Fall | BIOL 1010 and CHEM 1110 recommended | | Covers the basic processes used to treat wastewater including primary treatment, biological treatment, and chemical treatment processes. Offers excellent preparation for the state license exam. |
| ENVT 2600   | Skills for Humanitarian Projects | 3:3:0 | On Sufficient Demand | | | For students interested in participating in humanitarian projects. Covers water supplies, adobe stoves, drip irrigation systems, photoelectric lighting, and rules for safety in unfamiliar surroundings. |
Course Descriptions

ENVT 2710
Environmental Careers
1:1:0 Fall, Spring
For all students interested in environmental careers. Explores the career opportunities in environmental areas. Covers resumes, letters of inquiry, networking, and other methods of job seeking.

ENVT 2730
Introduction to Soils
4:3:2 On Sufficient Demand
Prerequisite(s): ENGL 1010
An introductory course for majors and non-majors. Covers basic topics such as soil classification, soil-water relations, fertility, soil strength, and soil conservation. Offers important background information for those involved in pollution prevention and remediation, environmental monitoring, and home gardening.

ENVT 282R
Environmental Internship
1 to 5:0 to 25 Fall, Spring, Summer
Prerequisite(s): Instructor permission
Allows students practical experience working at an environmentally related job. May be repeated for a maximum of five credits toward graduation. May be graded credit/no credit.

ENVT 3010
Environmental Toxicology
3:3:0 Fall
Prerequisite(s): BIOL 1010 and CHEM 1110 recommended
For environmental managers and safety managers. Discusses safe levels of exposure, safe industrial practices and regulations. Reviews standards for toxic substances. Increases awareness of toxins commonly found on job sites.

ENVT 3280
Environmental Law
3:3:0 Spring
Prerequisite(s): ENGL 1010 and ENGL 2020 recommended
Covers the Clean Water Act, the Safe Drinking Water Act, and the Clean Air Act. Reviews the Toxic Substances Control Act, the Resource Conservation and Recovery Act, the Superfund law, DOT regulations, and OSHA regulations.

ENVT 3290
Environmental Permits and Reports
3:3:0 On Sufficient Demand
Prerequisite(s): ENGL 1010 and ENGL 2020 recommended
For students interested in becoming environmental managers. Covers the permits and reports that are required by the EPA, OSHA, state and local agencies that relate to air, water, and hazardous materials. Includes the preparation of sample permit applications and monthly operational reports.

ENVT 3320
Hydraulics of Water
3:3:0 On Sufficient Demand
Prerequisite(s): MAT 1010 and University Advanced Standing
Prepares students to analyze the flow of water. Includes the continuity equation, Hazen-Williams formula, and the Bernoulli Theorem. Completers will be better able to interact with engineers and operate water equipment in a professional manner.

ENVT 3330
Water Resources Management
3:3:0 Fall
Prerequisite(s): University Advanced Standing
Examines the broad issues that affect water quality and supply. Covers watershed management, limnology, stormwater management, and wetlands. Discusses the biological and physical processes that occur and the legal constraints that affect management decisions.

ENVT 3530
Environmental Management Systems
3:3:0 On Sufficient Demand
Prerequisite(s): ENGL 1010 and ENGL 2020 recommended
For those interested in the interaction between industry and the environment. Covers the systems and organization necessary to effectively manage environmental issues. Discusses the ISO 14000 standard and its effect upon management practices.

ENVT 3550
Site Investigation
3:3:0 On Sufficient Demand
Prerequisite(s): University Advanced Standing
Covers the investigation and preliminary cleanup of a contaminated site. Includes planning, training, site characterization, sampling, and site control. Completers should have a basic understanding of the process used to remediate an environmentally damaged site.

ENVT 3600
Appropriate Technologies and Sustainable Development
3:3:0 Spring
Prerequisite(s): ENGL 2010 or ENGL 2020 and University Advanced Standing
Reviews the origins of poverty and the current conditions of people in developing countries. Offers development solutions being pursued around the world. Empowers students to play an active role in international poverty reduction by introducing international development and its challenges. Teaches students how to determine appropriate technologies based on design, physical, and social considerations.

ENVT 3630
Introduction to Geographic Information Systems
4:3:2 Not Offered
Prerequisite(s): University Advanced Standing
Introduces the operation of Geographic Information Systems (GIS). Focuses on GIS software and basic theory of geographic information science. Offers valuable preparation for careers in geography, planning, surveying, marketing, environmental technology, biology, engineering, and other related fields. Lab access fee of $30 for computers applies.

ENVT 3700
Current Topics in Environmental Management
3:3:0 Fall
Prerequisite(s): University Advanced Standing; ENVT 1110 recommended
Studies local environmental issues, new technologies, and the challenges faced by environmental managers. Issues discussed will vary with the semester. Prepares students for a thoughtful discussion of environmental issues.

ENVT 3750
Land Use Planning
3:3:0 Spring
Prerequisite(s): University Advanced Standing; ENVT 3280 recommended
Covers key issues in land use planning and how they affect the environment. Includes multiple use concepts, focused uses, zoning, mapping, and the political processes used in planning. Discusses the importance of strategic planning and public relations.

ENVT 3770
Natural Resources Management
3:3:0 On Sufficient Demand
Prerequisite(s): University Advanced Standing; BIOL 1010 recommended
For students in the Environmental Management program and others interested in natural resource issues. Introduces the management and conservation of natural resources. Discusses forestry, range management, wildlife management, and outdoor recreation.

ENVT 3790
Hydrology I
4:3:3 Fall
Prerequisite(s): MATH 1050, GEO 1010, GEO 1015, and University Advanced Standing
Teaches how to solve textbook problems by developing skills in mathematics and understanding of hydrology. Uses hydrology to solve the real problems of real people. Requires that each student carry out a service learning project in the areas of water development, water conservation or water quality.
ENVT 3800 (Cross-listed with: CHEM 3800, PHYS 3800)

Energy Use on Earth

3:3:0 Fall
* Prerequisite(s): (PHYS 1010 or PHSC 1000 or CHEM 1010 or GEO 1010 or GEO 2040 or METO 1010) and MATH 1050 and University Advanced Standing

Covers the science of energy production and consumption. Quantitatively analyzes various methods of energy production, distribution, and end use in all sectors of our society, including transportation, residential living, and industry. Examines the impacts of our energy consumption on the environment and prospects for alternative energy sources. Intended for science majors interested in energy use in society or in an energy related career, and for students in other majors who feel that a technical understanding of energy use will help them to understand and mitigate its impact in our society.

ENVT 3850

Environmental Policy

3:3:0 Fall
* Prerequisite(s): ENVT 1110 and ENVT 3280 (recommended)

For upper-division students with an interest in environmental policy. Discusses the process by which policies are made and the factors that influence policy formation. Includes political factors, economics, international issues, public awareness and others.

ENVT 4790

Hydrology II

4:3:3 Spring
* Prerequisite(s): ENVT 3790 and University Advanced Standing

Continuation of ENVT 3790 with an emphasis on contaminant hydrology and computer modeling. Requires students to prepare a case study in the area of contaminant hydrology. Requires that each student carry out a service learning project in the areas of water development, water conservation or water quality.

ENVT 482R (Cross-listed with: GEO 482R)

Geologic/Environmental Internship

1 to 3:0:5 to 15 Fall, Spring
* Prerequisite(s): GEO 1010 or ENVT 1110; 12 credit hours of any GEO, GEOG, or ENVT courses; declared major in any Earth Science program; and University Advanced Standing

Engages students in supervised geologic or environmental work in a professional setting. Requires approval by the Chair of the Department of Earth Science. Includes maintaining a journal of student experiences and preparing a paper summarizing their experience. A maximum of 3 credit hours may be counted toward graduation. May be graded Credit/No Credit.

ENVT 4890

Surface Water Hydrology

4:3:3 On Sufficient Demand
* Prerequisite(s): ENVT 3790 and University Advanced Standing

Strengthens problem-solving skills in the area of surface water hydrology. Major topics include drainage networks, open-channel hydraulics, theory of sediment transport, and statistical hydrology. Provides the opportunity to contribute to ongoing departmental research in surface water hydrology.

ENVT 495R

Special Projects in Environmental Management

1 to 3:0:3 to 9 Fall, Spring
* Prerequisite(s): Instructor Permission and University Advanced Standing

Allows students to pursue undergraduate research projects. Includes instructor directed practical research. Students will prepare a report of their findings. May be repeated for a maximum of 6 credits toward graduation.

Emergency Services

Aircraft Rescue Firefighting (ESAF)

ESAF 2100

Airport Firefighter

3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ESFF 250A and ESFF 250B) or Firefighter II Certification

Explores the theories and fundamentals associated with airport rescue fire fighting. Addresses safety, operations and agents associated with aircraft rescue and firefighting procedures. Provides an overview of communications, apparatus, tools and equipment specific to the aerospace emergency service delivery. May be delivered online.

ESAF 2110

Aircraft Related Mass Casualty Incidents

3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ESFF 250A and ESFF 250B) or Firefighter II Certification

Involves the planning, response, mitigation and management of a mass casualty incident resulting from a crashed aircraft. Includes issues relating to medical treatment, triage and transportation. Examines how the command structure functions as well as how operations personnel work on the scene of mass casualty incident. May be delivered online.

ESAF 2120

Aircraft Mishaps

3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ESFF 250A and ESFF 250B) or Firefighter II Certification

Teaches the learner how to locate and use past aircraft accident and mishap data from various government agencies in order to develop relevant lesson plans and training courses for emergency responders. Learning how to research this information will strengthen emergency service agencies involved in aircraft rescue firefighting by giving them the tools and knowledge to develop relevant guidelines, protocols, procedures, and training evolutions based on current mishaps and findings. May be delivered online.

ESAF 2130

Aviation Terrorism Response

3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ESFF 250A and ESFF 250B) or Firefighter II Certification

Deals with the threats associated with terrorism and the aviation industry as they relate to the emergency service response. Examines past acts of terror along with present and future threats and their connection to aerospace emergency services planning and response. Identifies various aspects of aviation security and control in correlation to the emergency responders’ responsibilities. May be delivered online.

ESAF 2140

Airport Operations for the Emergency Responder

3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ESFF 250A and ESFF 250B) or Firefighter II Certification

Offers responders an understanding of ground operations, communications, layout, movements and functions in order to operate effectively within the boundaries of an airport. Discusses the complex, unfamiliar setting responders face associated with daily operations of an airport. May be delivered online.

Emergency Services

Emergency Care (ESEC)

ESEC 1140

Emergency Medical Technician--Basic

9:7:6 Fall, Spring

For first semester Fire Science students. Prepares students for certification as an Emergency Medical Technician-Basic through the Utah Bureau of EMS. Includes CPR, automatic defibrillation, patient assessment and treatment, legal issues, airway support, medical and trauma emergencies, emergency childbirth, pediatric emergencies and patient movement/transport. Course fee of $69 for computers applies.

ESEC 1150

EMT Refresher Level I

2:1:2 On Sufficient Demand
* Prerequisite(s): ESEC 1140

Provides in-service refresher information to maintain EMT Level 1 certification based on the D.O.T. requirements for emergency medical technicians. Focuses on required EMT skill mastery. Course fee of $50 for materials, equipment, state services & testing applies.

ESEC 3060

Emergency Medical Technician-Advanced

9:7:6 Fall, Spring
* Prerequisite(s): EMT Level Certification and University Advanced Standing

Prepares students for certification as an Emergency Medical Technician-Advanced through the Utah Bureau of EMS. Includes Life span development, advanced airway management, intravenous access, medication administration, cardiac rhythm interpretation and other advanced medical skills. Course fee of $122 for materials, equipment applies.
Course Descriptions

ESEC 3110  
Paramedic I  
5:5:0  
Fall, Spring  
* Prerequisite(s): EMT-Basic Certification for one-year and University Advanced Standing; Departmental approval or completion of the following courses with a grade of C- or higher: ZOOL 1090 or higher, ENGH 1000 or higher, MAT 0990 or higher or ESFO 1350  
* Corequisite(s): ESEC 3120, ESEC 3130, and ESEC 3140

Introduces the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in EMS communication, medical and legal considerations and documentation. Includes anatomy and physiology of the human body as it applies to emergency care. Discusses proper sterile technique, scene evaluations, and patient assessments. Covers acid/base, fluid and electrolytes and fluid resuscitation, patient assessment and emergency treatment of the respiratory and abdominal systems. Requires individual written research projects with a review of literature pertaining to current coursework. Course Lab fee of $278 for state services & testing applies.

ESEC 3120  
Paramedic I Lab  
3:0:9  
Fall, Spring  
* Prerequisite(s): University Advanced Standing  
* Corequisite(s): ESEC 3110, ESEC 3130, and ESEC 3140

Designed to allow hands-on practice and evaluation of the following skills: IV therapy, IO infusions, IM injections, SQ injections, oral and nasal intubation, thoracotomy, cricothyrotomy, defibrillation, transcatheter pacing, cardiodversion, medication delivery, and patient assessment. Completers should be qualified to progress to the second semester program. Course fee of $143 for materials applies.

ESEC 3130  
Paramedic II  
7:6:3  
Fall, Spring  
* Prerequisite(s): University Advanced Standing  
* Corequisite(s): ESEC 3110, ESEC 3120, and ESEC 3140

Discusses the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in pharmacology, cardiac rhythm and monitoring, ACLS, patient assessment and emergency treatment for the cardiac system, central nervous system and musculoskeletal system. Includes mechanism of injury, burns, and the assessment and treatment of trauma patients. Requires individual written research projects with a review of literature pertaining to current coursework. Course Lab fee of $123 for materials applies.

ESEC 3140  
Paramedic III  
4:4:0  
Fall, Spring  
* Prerequisite(s): University Advanced Standing  
* Corequisite(s): ESEC 3110, ESEC 3120, and ESEC 3130

Discusses the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in diabetes, alcoholism, overdose and ingestion, and communicable diseases. Includes pediatrics (PALS), obstetrics, childbirth, care of the neonate, geriatrics, incident command system (ICS), interpersonal skills, and critical incident stress. Requirements also include individual written research projects with a review of literature pertaining to current coursework. Course Lab fee of $155 for materials applies.

ESEC 4110  
Paramedic IV  
6:5:3  
Spring, Summer  
* Prerequisite(s): ESEC 3110, ESEC 3120, ESEC 3130, ESEC 3140, and University Advanced Standing  
* Corequisite(s): ESEC 4120

Discusses the Emergency Medical Services (EMS) system and the role of the paramedic within this system. Teaches the terms, definitions, concepts, pre-hospital care life, trauma life support, and skills of a Paramedic through lecture and hands-on experience. Includes landing zones and safety, high angle rescue, Life-Pack 10, street smarts, death, dying and grieving, handling rape and domestic violence, substance abuse, EVO training, auto extrication, and forensic medicine. Requires individual written reports reflecting current trends in EMS and demonstration of proficiency in professional patient care reports. Successful completers should be able to meet the requirements listed in the National Standard D.O.T. Paramedic curriculum and the qualifications defined in the Utah Paramedic Training Program Accreditation Standards. Additionally, students completing the required coursework will be recommended for testing with the National Registry of Emergency Medical Technicians Paramedic (NREMT-P) for certification. Course fee of $196 for equipment, state services & testing applies.

ESEC 4120  
Paramedic Clinical Concepts  
6:0:18  
Spring, Summer  
* Prerequisite(s): University Advanced Standing  
* Corequisite(s): ESEC 4110

Includes field-based experiences with Paramedic rescue, hospital emergency department, pediatric emergency department, intensive care units, aeromedical service, labor and delivery, and operating room to provide field experience. Requires individual written reports reflecting current trends in EMS and demonstration of proficiency in professional patient care reports. Successful completers should be able to meet the requirements listed in the National Standard D.O.T. Paramedic curriculum and the qualifications defined in the Utah Paramedic Training Program Accreditation Standards. Additionally, students completing the required coursework will be recommended for testing with the National Registry of Emergency Medical Technicians Paramedic (NREMT-P) for certification. Course fee of $75 for materials and practical experience applies.

ESEC 4150  
Critical Care Emergency Medical Transport Program  
6:4:6  
* Prerequisite(s): Department Approval and University Advanced Standing

Brings paramedics and nurses together in an effort to bridge the gap between pre-hospital and hospital care. Prepares specialized care providers to have an understanding of both aspects of patient care, and to use that understanding to provide a higher level of care to critical patients during transport. Designed to prepare paramedics and nurses to function as members of a critical care transport team. Offers an understanding of the special needs of critical patients during transport, become familiar with the purpose and mechanisms of hospital procedures and equipment, and develop the skills to maintain the stability of hospital equipment and procedures during transport.

Emergency Services (ES)

ES 1150  
Emergency Preparedness in Communities  
3:3:0  
SS

Examines emergency and crisis preparedness for the individual, family, and community as practiced at the state, national and international levels. Explores prevention and disaster recovery strategies against all hazards threats to home, neighborhood and community whether natural or human caused. May be delivered online.

ES 1160  
Responders Role in Emergencies and Disasters  
3:3:0  
On Sufficient Demand

* Prerequisite(s) or Corequisite(s): ENGL 1010 or department permission

Prepares emergency services students to respond effectively in both day-to-day emergency circumstances as well as extreme disasters. Examines the theory and skills to effectively handle emergency operations and deal with people in the context of emergencies. This course will be offered as a hybrid or online course.

ES 1170  
Citizen Role in Emergencies and Disasters  
3:3:0  
* Prerequisite(s): ENGL 1010 recommended

Designed for students of emergency management and volunteer private agencies. Discusses disaster preparedness, planning, and mitigation. Extends the discussion of the public role in emergencies and disasters to disaster response and recovery. Describes the variety of actions taken by individuals, private and voluntary organizations, first responders, and government agencies in response to a disaster and to assist in recovery.
ES 2210 Community Mitigation Response and Recovery 3:3:0
* Prerequisite(s): ENGL 1010 recommended
Provides an introduction to emergency management for community members, emergency service volunteers, and future disaster relief workers. Prepares them with the knowledge and the skills to allow them to work in emergency services in government or non-profit agencies. Introduces emergency management principles, doctrines and authorities, emergency management functions and capabilities, and the integrated emergency management system. Addresses the coordination of various systems, networks, and agreements among various governmental and other organizations under the National Incident Management System (NIMS).

ES 2220 Resiliency and Vulnerability in Crises 3:3:0
* Prerequisite(s): ENGL 1010 recommended
Expands the knowledge of disasters so that students of emergency management, volunteers, and community members understand the nature of multiple hazards, both man-made and natural, and are aware of their impact on vulnerable populations. Presents risk management tools to assist in mitigating, planning and preparing for disasters.

ES 2230 Non-profit Organizations and Volunteerism 3:3:0
* Prerequisite(s): ENGL 1010 recommended
Improves participant abilities to deal with a broad range of issues in the management of volunteers. Covers publicly and recruitment, skill development and maintenance, and motivation strategies to promote continued involvement and quality performance. Addresses the planning and operations of an effective donations management system, and explores the coordination of state and local government and representatives of Voluntary Organizations Active in Disaster (VOAD) when working with undesignated and spontaneous volunteers during a disaster.

ES 290R SpecialTopics in Emergency Services 1 to 3:1 to 3:0
On Sufficient Demand
Provides students the opportunity to study special topics in emergency services. Requires students to identify emergency service topics and evaluate their application to emergency services. Calls for the creation of a research paper, presentation, academic report, or a significant project. May be repeated for a maximum of 6 credits toward graduation.

Emergency Services

ESFF 1000 Introduction to Emergency Services and Ability Testing 4:4:0 Fall, Spring, Summer
Explores career opportunities and job requirements of fire and rescue emergency services. Discusses the various duties within emergency services, including structural fire fighting, wildland firefighting, technical rescue, hazardous materials control, fire protection, fire investigations, and incident command. Explains the employment testing and selection processes of federal, state, municipal, and industrial emergency service organizations. Develops basic emergency skills in hazard recognition, response organization, and fire extinguisher use. May be delivered online. Course fee of $30 for computers applies.

ESFF 100A Introduction to Emergency Services 3:3:0 On Sufficient Demand
Explores career opportunities and job requirements of fire and rescue emergencies. Discusses the various duties within emergency services, including structural fire fighting, wildland firefighting, technical rescue, hazardous materials control, fire protection, fire investigations, and incident command. Explains the employment testing and selection processes of federal, state, municipal, and industrial emergency service organizations. Develops basic emergency skills in hazard recognition, response organization, and fire extinguisher use.

ESFF 100B Firefighter Physical Ability Testing 1:1:0 On Sufficient Demand
Provides aspiring firefighters with information needed to pass various physical ability tests. Explores the background and development of tests, including the role the Candidate Physical Ability Test plays in the Wellness Fitness Initiative. Outlines principles of designing and implementing an effective training program.

ESFF 1010 Firefighting Fundamentals I 3:3:0 On Sufficient Demand
* Corequisite(s): ESFF 1210
Discusses the history and background of the fire service. Teaches terms, definitions, and concepts of NFPA 1001 Professional Qualifications for Firefighters Level I. Includes fire behavior, ventilation rescue, forcible entry, ladders, ropes and knots, self-contained breathing apparatus, firestreams, fire hose, salvage, overhaul, fire suppression techniques, communications, fire sprinklers, and fire inspection. Course fee of $20 for state services & testing applies.

ESFF 1120 Principles of Fire and Emergency Services Safety and Survival 3:3:0 Fall, Spring, Summer
Introduces the basic principles and history related to the national firefighter life safety initiatives. Focuses on the need for cultural and behavior change throughout the emergency services. May be delivered online.

ESFF 1210 Firefighting Skills I 4:0:12 On Sufficient Demand
* Corequisite(s): ESFF 1010
Teaches basic manipulative skills according to NFPA 1001 Firefighter Professional Standards, Level I. Includes using forcible entry tools, using self-contained breathing apparatus, tying knots and using ropes, handling salvage covers, utilizing hose nozzles and appliances, manipulating ladders, ventilation practices, search for and removal of victims, sprinkler operations, initiating emergency response, and safety procedures. Students are required to furnish their own approved firefighter safety clothing as follows: gloves, boots, helmet, and hood. Course fee of $95 for specialized clothing and materials applies.

ESFF 1220 Firefighting Fundamentals and Skills II 3:1:6 On Sufficient Demand
* Prerequisite(s): ESFF 1010 or Departmental approval
Teaches intermediate skills as described in NFPA 1001 Level II. Builds upon the basic skills taught in ESFF 1010 and introduces new skills and knowledge in water supplies, portable extinguisher practices, inspection techniques, and rescue operations. Course fee of $100 for specialized clothing and materials applies.

ESFF 1340 Hazardous Materials First Responder 3:3:0 Fall, Spring
* Prerequisite(s) or Corequisite(s): ESFF 1000 or department approval
For first year Fire Science students. Addresses the Hazardous Materials First Responder requirements of NFPA 472 and 29 CFR 1910.120. Includes definitions and classes of hazardous materials; physiological and toxicological considerations; DOT, UN and NFPA 704 labeling and placarding systems; container types and container identification. Completers should be able to conduct an incident size-up using the North American Emergency Response Guide, use personal protective equipment and conduct a decontamination procedure. Completers should be prepared Course fee of $119 for materials, state services & testing applies.

ESFF 1360 Recruit Candidate Academy Internship 3:0:15 Fall, Spring, Summer
* Prerequisite(s): ESFF 1330, ESFF 1340, instructor's recommendation, and internship coordinator's approval
For students who have completed the Recruit Candidate Academy courses and desire an opportunity to apply the knowledge, skills, and abilities learned in a realistic environment. Student interns will experience the fire service as a fully integrated member of a fire company in a career fire department. Additionally, the internship will emphasize the student's work ethic, attitude, and ability to adapt to highly stressful and sometimes dangerous situations. May be graded credit/no credit. Course fee of $200 for specialized clothing applies.
ESFF 1370
Fundamentals of Apparatus Operation
3:0:3 On Sufficient Demand
Provides basic information on driving and operating a variety of fire apparatus by meeting the knowledge requirements as listed in NFPA 1000 Professional Qualifications for Fire Apparatus Driver Operator. Includes fire pump operation, emergency driving techniques, regulations and laws, fire ground operations, apparatus maintenance and testing procedures.

ESFF 1380
Fire Apparatus Skill
3:0:9 On Sufficient Demand
* Prerequisite(s): ESFF 1220 or ESFF 1330
Teaches manipulative skills as described in Firefighter Professional Qualification Standard NFPA 1002. Includes fire apparatus operation, defensive driving, emergency driving techniques, and equipment care and maintenance. Emphasizes hands-on lab activities. Course fee of $55 for transportation, state services & testing applies.

ESFF 2100
The Desire to Serve
3:3:0
* Prerequisite(s): ENGL 1010
Explores the aspiring and current emergency services learner's desire to serve and relates it to the theoretical constructs and characteristics of servant leadership. Discusses the roles and responsibilities of leadership/ followership, internal and external, associated with the emergency services. Develops basic leadership/ followership traits, based upon the theory of servant leadership. May be delivered online.

ESFF 2410
Hazardous Materials Technician Fundamentals
3:3:0 On Sufficient Demand
* Prerequisite(s): ESFF 1340
Teaches the knowledge requirements of NFPA 471, 472, and CFR 1910.120 regulation for a Hazardous Materials Technician. Includes emergency response plans, classification of materials, ICS roles, personnel protective equipment needs, masks, containment and confinement concepts, decon requirements, termination concepts, toxicological and chemical terms and definitions.

ESFF 2420
Hazardous Materials Technician Skills
2:0:6 On Sufficient Demand
* Prerequisite(s): ESFF 2410
Presents the manipulative skill requirements of NFPA 471, 472, and CFR 1910.120 regulation for a Hazardous Materials Technician. Teaches handling simulated incidents, classifying materials, performing in ICS roles, using personnel protective equipment, containment and confinement operations, setting up and operating decon, diking, plugging, and patching operations. Course fee of $55 for specialized clothing, state services & testing applies.

ESFF 2430
Hazardous Materials Chemistry
3:2:3 On Sufficient Demand
Presents in-depth chemical information for hazardous materials responders. Teaches basic knowledge of how to evaluate potential hazards and behaviors of hazardous materials. Provides the underlying reasons for chemical reactions of hazardous materials. Includes decision-making abilities, safe operations, and handling. Course fee of $40 for specialized clothing, materials applies.

ESFF 250A
Firefighter Recruit Candidate Academy I
8:6:6 Fall, Spring
* Prerequisite(s): Matriculated into the AAS Emergency Services: Firefighter/Emergency Care Emphasis
Addresses the first part of the cognitive and psychomotor requirements of Firefighter I and Firefighter II certification. Includes basic firefighting topics and related skills, including fire behavior, building construction, personal protective equipment, tools, appliances, firefighter safety, forcible entry, and apparatus. Prepares students to certify at the Fire Fighter I and Fire Fighter II levels. Course fee of $456 for specialized clothing, state services & testing, materials, and equipment applies.

ESFF 250B
Firefighter Recruit Candidate Academy II
8:6:6 Fall, Spring
* Prerequisite(s): Matriculated into the AAS Emergency Services: Firefighter/Emergency Care Emphasis
Addresses the second part of the cognitive and psychomotor requirements of Firefighter I, Firefighter II, and Hazardous Materials Awareness and Operations certification. Includes basic firefighting topics and related skills. Addresses the Hazardous Materials First Responder requirements of NFPA 472 and 29 CFR 1910.120. Includes definitions, classes of hazardous materials, physiological and toxicological considerations, and labeling and placarding systems. Prepares students to certify at the Fire Fighter I, Fire Fighter II, and Hazardous Materials Awareness and Operations levels. Course fee of $279 for specialized clothing, state services & testing, and materials applies.

ESFF 2700
Technical Rescue Principles
3:2:3 On Sufficient Demand
For those with limited fire and emergency services training. Addresses the prerequisite knowledge and skills for technical rescue job performance. Applies the Incident Command System to the management of technical rescue operations, resources and hazards. Includes search and rescue techniques, victim care and extrication, and the use of ropes and rigging. Course fee of $70 for equipment, materials applies.

ESFF 2710
Environmental Rescue
3:2:3 On Sufficient Demand
* Prerequisite(s): ESFF 1220
Includes analysis and simulation of problems such as wilderness search and rescue, still and swift water rescue, avalanche and mountain rescue. Discusses disaster planning and management as well as rescues from the work place and industrial settings. Course fee of $70 for specialized clothing, materials, and transportation applies.

ESFF 2730
Rope Rescue
3:2:3 On Sufficient Demand
* Prerequisite(s): ESFF 1330 and ESFF 1340, or departmental approval
Designed to meet the rope rescue job performance requirements of NFPA 1006, Standard for Rescue Technician Professional Qualifications. Addresses various types and configurations of rope rescue systems. Includes compound mechanical advantage systems, rescuer suspension systems, high-angle and vertical victim rescue systems, construction and operation of highline systems, and ascent/ decent procedures. Course fee of $70 for equipment, materials applies.

ESFF 281R
Emergency Services Internship
1 to 8:0:5 to 40 Fall, Spring, Summer
* Prerequisite(s): ESFF 1000 or sufficient emergency services work experience, or instructor approval
Designed for Emergency Services majors. Provides paid, on-the-job work experience. Work experience and the correlated class are coordinated by the Coordinator and director who must approve enrollment. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Gives experience in writing and completing individualized work objectives that improve present work performance. May be repeated for a maximum of 8 credits towards graduation. May be graded credit/no credit.

Emergency Services
Fire Officer (ESFO)

ESFO 1100
Fire Behavior and Combustion
3:3:0 Fall, Spring, Summer
Explores the theories and fundamentals of how and why fires start, spread and how they are controlled. Addresses the fire problem in America, background of research, and how to approach the study of fire. Provides an overview of various flames, smoldering, and spontaneous combustion. May be delivered online.

ESFO 1110
Fire Prevention
3:3:0 Fall, Spring, Summer
Provides fundamental information regarding the history and philosophy of fire prevention. Introduces the organization and operation of a fire prevention bureau. Covers the use of fire codes, identification and correction of fire hazards. Discusses the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education. May be delivered online.

ESFO 1350
Fire Protection Hydraulics and Water Supply
3:3:0 On Sufficient Demand
Introduces basic mathematical operations, including fractions, decimals, percentages, measurements, statistics, graphs, formulas and equations. Completers should be able to apply mathematical skills in solving basic fire service hydraulic and water supply problems.
Course Descriptions

ESFO 2020
Incident Command
3:3:0 On Sufficient Demand
* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

Presents the basic principles of managing an emergency scene through the utilization of an incident command system for simple single unit, to complex multi unit response. Requires use of personnel, equipment, and additional resources to manage an incident by completing a size-up, analyze, develop and implement an action plan, maintain on scene accountability of personnel and resources by following IMS principles. Meets the incident command requirements for Fire Officer I, Fire Officer II, NFPA 1021, Presidential Directive #5, and NIMS compliance.

ESFO 2030
Fire Inspector I
3:3:0 On Sufficient Demand
* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

For Fire Science and Building Inspection Technology students. Addresses the principles of fire inspection and application of the International Fire Code. Topics include identification of fire hazards, fire prevention measures, inspection techniques, and pre-fire planning. Includes classroom discussion and actual inspections of both under-construction and occupied buildings. Successful completers should be prepared to attain Fire Inspector I certification. Course fee of $80 for state services & testing, materials applies.

ESFO 2050
Fire Protection and Detection Systems
3:3:0 Fall, Spring
* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

Teaches students to become familiar with the various types of fire protection and detection systems. Explains how each type of system functions, where such systems are required by code and how the various systems are serviced and maintained. May be delivered online. Course fee of $17 for materials applies.

ESFO 2080
Building Construction for the Fire Services
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

For second year Fire Science students. Explores components of building construction that relate to fire and life safety. Explains construction and design factors to be considered during fire inspections, pre-fire planning and fire fighting operations. Emphasis is placed on firefighter safety. May be delivered online.

ESFO 2100
Fire Officer I: Supervision and Leadership
3:3:0 On Sufficient Demand
* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

For second year Fire Science students and experienced firefighters. Addresses the NFPA requirements for Fire Officer I. Discusses human resource management, community and government relations, application of fire department policies, fire investigation procedures, emergency service delivery and safety considerations. Completers should be prepared to certify as Fire Officer I. Course fee of $40 for state services & testing applies.

ESFO 2110
Fire Instructor I and II
3:3:0 On Sufficient Demand
* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

Teaches the NFPA 1041 requirements for Instructor I and II. Includes job factors that influence teaching, developing behavior objectives and lesson plans, organizing the learning environment, methods of instruction, training aids, and principles of testing and evaluations. Lab activities include classroom presentations, preparing audiovisuals, and developing objectives. Course fee of $85 for state services & testing, materials applies.

ESFO 211A
Fire Service Instructor I
1:1:0 On Sufficient Demand
* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

For second year Fire Science students. Addresses the knowledge and skills required to deliver a training lesson from a prepared outline and instructor's guide. Includes psychology of learning, instructional techniques, instructional media, evaluation techniques, and legal considerations. Completers should be prepared to instruct a fire service audience and certify as Fire Service Instructor I. Course fee of $43 for state services & testing, materials applies.

ESFO 211B
Fire Service Instructor II
2:2:0 On Sufficient Demand
* Prerequisite(s): ESFO 211A or Departmental Permission

For those who have already completed ESFO 211A or attained Fire Service Instructor I certification. Explores job factors that influence teaching, developing behavior objectives and lesson plans, organizing the learning environment, methods of instruction, training aids, and principles of testing and evaluations. Completers should be able to prepare and conduct classroom presentations, prepare audiovisual materials and equipment, and be prepared to certify as Fire Service Instructor II. Course fee of $40 for state services & testing applies.

ESFO 2200
Fire Officer II
3:3:0 On Sufficient Demand
* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

Addresses the administrative skills and abilities required for Fire Officer II certification. Includes occupational health and safety concepts, injury prevention, risk management, application of departmental policies and procedures, preparation of budget requests, preparation of news releases, and preparation and maintenance of departmental records and reports.

ESFO 2310
Fire Investigator I
3:3:0 On Sufficient Demand
* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

Presents basic requirements for fire investigators as found in NFPA 1033. Includes scene examination, documenting the scene, evidence collection and preservation, interviewing techniques, post incident investigation and presenting investigation findings.

ESFO 2320
Fire Investigator II
3:3:0 On Sufficient Demand
* Prerequisite(s): ESFO 2310 or Departmental Approval

Presents advanced skills for fire investigators. Explores all aspects of the investigative process, scene documentation, advance collection tools and evidence preservation, advanced investigative techniques, case preparation, presenting findings in a legal/court proceeding.

ESFO 2330
Public Fire Education I
2:2:0 On Sufficient Demand
* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

Teaches professional qualifications of NFPA 1035. Identifies fire risks and problems in a community. Teaches selecting, designing, and implementing fire prevention and education programs.

ESFO 2400
Fire Officer Work Experience
3:1:6 On Sufficient Demand
* Prerequisite(s): ESFO 2020 and ESFO 2200

Provides an opportunity for students to complete the Fire Officer II work place performance requirements of NFPA 1021, Standard for Fire Officer Professional Qualifications. Under the supervision of an experienced fire officer, requires meeting performance objectives in areas of human resource management, community relations, governmental relations, inspection procedures, investigation procedures, emergency service operations, emergency services planning and personnel safety procedures, through a non-paid work experience.

English as a Second Lang (ESL)

ESL 0100
Basic English Language Immersion
12:12:0 Fall, Spring
* Prerequisite(s): Department Approval

For beginning ESL students, with little or no previous English experience. Integrates essential language tools and skills-reading, writing, listening, speaking, and vocabulary-needed to perform basic communicative tasks. Emphasizes building a learning community within the classroom. Includes lecture, discussion, collaborative class work, and outside experience with native English speakers.

ESL 010A
Basic English Reading and Writing
5:5:0 Fall, Spring
* Prerequisite(s): Department Approval

For beginning ESL students, with little or no previous English experience. Teaches basic competence and fluency in reading and writing. Focuses on reading fluently with meaningful comprehension and natural vocabulary acquisition. Covers paragraph writing on topics introduced in reading, using description, narration, and biography. Includes lecture, discussion, and outside experience with native English speakers. Completers should advance to high-beginning reading and writing level.
Course Descriptions

ESL 010B
Basic English Listening and Speaking
5:5:0 Fall, Spring
* Prerequisite(s): Department Approval
For beginning ESL students, with little or no previous English experience. Teaches basic survival skills in English-grammar pragmatics, accuracy, and listening, including proper pronunciation, intonation, and rhythm patterns. Includes lab, lecture, field trips, guest speakers, and outside experience with native English speakers. Completers should advance to high-beginning English level.

ESL 010C
Basic English Vocabulary
4:4:0 Fall, Spring
* Prerequisite(s): Department Approval
For beginning ESL students, with little or no previous English experience. Teaches a 1500-word vocabulary necessary for survival and academic needs. Explores vocabulary in context around relevant themes. Includes communicative practice and authentic language practice with native English speakers. Completers should advance to high-beginning English level.

ESL 0910
Listening/Speaking Level I
4:4:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For students whose native language is other than English. Explores use of simple statements, questions, and commands on familiar topics. Develops vocabulary on concrete topics. Introduces students to short academic lectures and conversations. Introduces concepts of pronunciation, intonation, stress and reductions. Includes weekly use of the UVU Language Lab where beginning listening skills are emphasized and practiced.

ESL 0911
Beginning Pronunciation
1:1:0
* Prerequisite(s): Department Approval
* Corequisite(s): ESL 0910
For high-beginning ESL speakers with some previous English experience. Introduces phonetic alphabet for corresponding English alphabet sounds. Focuses on pronunciation of individual sounds along with how to produce naturally sounding syllables, words, and sentences through intonation, stress and linking.

ESL 0920
Reading Level I
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For students whose native language is other than English. Studies beginning vocabulary, word attack skills, English dictionary usage, and comprehension skills. Encourages reading for pleasure and for information. Introduces students to academic and job-related reading skills.

ESL 0930
Writing Level I
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For students whose native language is other than English. Introduces English writing conventions including applied grammar and usage, word choice, style, organization, idea development, and technical accuracy. Introduces students to simple academic writing tasks. Includes weekly use of the LEC Computer Classroom where beginning writing skills are emphasized and practiced.

ESL 0940
Grammar Level I
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For students whose native language is other than English. Introduces students to English usage, correct speech and writing forms and patterns, basic verb tenses and their related structures, and simple use of nouns, pronouns, adverbs, sentence connectives, descriptives, and related forms.

ESL 1210
Listening/Speaking Level II
4:4:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
* Corequisite(s): ESL 1210
For students whose native language is other than English. Expands use of simple statements, questions, and commands on familiar topics to academic conversations and lectures Develops vocabulary on concrete and abstract topics. Studies low-intermediate concepts of pronunciation, intonation, stress and reductions. Includes weekly use of the UVU Language Lab where low-intermediate listening skills are emphasized and practiced.

ESL 1211
Intermediate Pronunciation
1:1:0
* Prerequisite(s): Departmental Approval
* Corequisite(s): ESL 1210
For low-intermediate ESL speakers with previous English experience. Introduces International Phonetic Alphabet symbols that correspond to American English alphabet sounds. Focuses on pronunciation of individual sounds along with how to pronounce naturally sounding syllables, words, and sentences through intonation, stress and linking.

ESL 1220
Reading Level II
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For students whose native language is other than English. Studies low-intermediate vocabulary, word attack skills, English dictionary usage, and comprehension skills. Encourages reading for pleasure and for information. Practices academic and job-related reading skills.

ESL 1230
Writing Level II
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For students whose native language is other than English. Introduces Intermediate English writing conventions including applied grammar and usage, word choice, style, organization, idea development, and technical accuracy. Explores short academic writing tasks. Includes weekly use of the GA Computer Classroom where low-intermediate writing skills are emphasized and practiced.

ESL 1240
Grammar Level II
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For students whose native language is other than English. Studies low-intermediate English usage, correct speech and writing forms and patterns, verb tenses and their related structures, and use of nouns, pronouns, adverbs, sentence connectives, descriptives, and related forms. Introduces modal auxiliaries, conditional sentence usage, phrases, and adjective clauses.

ESL 1310
Listening/Speaking Level III
4:4:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
* Corequisite(s): ESL 1310
For students whose native language is other than English. Explores listening strategies for academic news programs and academic lectures. Emphasizes active participation in academic and social conversations. Develops ability to give academic presentations. Studies high-intermediate concepts of pronunciation, intonation, stress, and reductions. Includes weekly use of the UVU Language Lab where high-intermediate listening skills are emphasized and practiced.

ESL 1311
High-Intermediate Pronunciation
1:1:0
* Prerequisite(s): Departmental Approval
* Corequisite(s): ESL 1310
For high-intermediate ESL speakers with previous English experience. Introduces phonetic alphabet for corresponding English alphabet sounds. Focuses on pronunciation of individual sounds along with how to produce naturally sounding syllables, words, and sentences through intonation, stress and linking.

ESL 1320
Reading Level III
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For students whose native language is other than English. Studies high-intermediate vocabulary, word attack skills, English dictionary usage, and comprehension skills. Encourages reading for pleasure and for information. Practices academic and job-related reading skills. Emphasizes extensive reading.
ESL 1330 Writing Level III
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For students whose native language is other than English. Studies high-intermediate English writing conventions including applied grammar and usage, word choice, style, organization, idea development, and technical accuracy. Explores longer academic writing tasks. Includes weekly use of the LEC Computer Classroom where high-intermediate writing skills are emphasized and practiced.

ESL 1340 Grammar Level III
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For students whose native language is other than English. Studies high-intermediate English usage, correct speech and writing forms and patterns, verb tenses and their related structures, and use of nouns, pronouns, adverbs, sentence connectives, descriptives, and related forms. Expands use of modal auxiliaries, conditional sentence usage, phrases and adverbial clauses. Introduces noun and adverbial clauses.

ESL 2110 Advanced Listening/Speaking
4:4:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For students whose native language is other than English. Studies advanced concepts of critical thinking and vocabulary. Provides opportunities for students to build confidence in public speaking. Emphasizes speaking and listening in advanced academic situations such as note-taking and participating in class discussions, debates, and presentations. Incorporates advanced concepts of pronunciation, stress, intonation, and linking. Includes weekly use of the UVU Language Lab where advanced listening skills are emphasized.

ESL 2111 Advanced Pronunciation
1:1:0
* Prerequisite(s): Departmental Approval
* Corequisite(s): ESL 2110
For high-intermediate ESL speakers with previous English experience. Reviews International Phonetic Alphabet for corresponding English alphabet sounds. Focuses on pronunciation of individual sounds along with how to produce naturally sounding syllables, words, and sentences through intonation, stress, rhythm, linking and reductions.

ESL 2120 Advanced Reading/Vocabulary
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For international students whose native language is other than English. Using the English language, emphasizes developmental activities in finding stated main ideas and details, understanding inferred main ideas, skimming, scanning, recognizing patterns of organization and author’s purpose, interpreting literature, and using advanced level vocabulary. Includes lectures, group discussions, lab activities, and multimedia. Satisfies AAS Humanities requirements.

ESL 2130 Advanced Composition
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For international students whose native language is other than English. Using the English language, emphasizes developmental activities in essay organization, outlining, essay writing, editing and punctuation, and research paper writing. Includes lectures, small and large group activities, peer editing, and lab activities. Satisfies AAS Humanities requirements.

ESL 2140 Advanced Grammar
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Department Approval
For students whose native language is other than English. Studies advanced English usage, correct speech and writing forms and patterns related to tense, time, parts of speech, modifiers, clauses, phrases, conditionals, active/pasive voice, and modals. Emphasizes grammatical fluency in English speech and writing. Satisfies AAS Humanities requirements.

ESL 2150 Academic Skills--TOEFL
5:5:0 Fall, Spring
* Prerequisite(s): ESL 1310, ESL 1320; ESL 1330; ESL 1340
Focuses on the development and integration of the underlying language skills (academic reading, writing, listening, speaking) that are assessed on the TOEFL iBT. Teaches key reading and listening strategies. Provides opportunities for students to apply those strategies to academic tasks that involve the synthesis of information from a variety of written and oral sources. Develops students’ academic vocabulary. Provides opportunities to develop their test-taking skills and prepare them to pass the TOEFL iBT.

Emergency Services Management (ESMG)

ESMG 310G Introduction to Homeland Security
3:3:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
Introduces student to global and intercultural issues regarding homeland security at the national, regional, state and local levels. Discusses the history of homeland security, including its political history, and evolution, particularly as it relates to terrorism. Addresses demands state and local authorities must meet when dealing with national programs and requirements which affect funding and operations on the state and local level during natural or man-made disasters and emergencies. May be delivered hybrid and/or online.

ESMG 3150 Public Program Administration
3:3:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
Examines critical skills used in the management of public safety operations. Proposes possible applications of the skills using real-life examples. Emphasizes the development process and analytical skills necessary to assess problems in the workplace and select appropriate solutions. May be delivered online.

ESMG 3200 Health and Safety Program Management
3:3:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
Teaches development, management, and evaluation of departmental safety programs. Includes compilation of accident and injury data from local jurisdictions. Develops programs that target safety concerns identified from research. Students will develop a plan to track effectiveness of safety programs to reduce personal injuries and property damage resulting from accidents within their department. May be delivered online.

ESMG 3250 Managing Emergency Medical Services
3:3:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
Teaches action planning procedures for emergency incidents requiring multiple agency operations. Includes determining resources, assigning and placement of resources to mitigate incidents requiring multi-agency responses. Studies coordination of changing roles and responsibilities of fire service based EMS providers with the requirements set forth by local ordinances, state statutes, and federal laws. Presents personnel, resource management, and quality improvement techniques. May be delivered online.

ESMG 3300 Master Planning for Public Emergency Services
3:3:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
Prepares students for developing long-range plans, given current organization status and local resources, emphasizing the attainment of both organizational, and community needs. Teaches planning for growth and for major disasters. Integrates resources and budgets while mitigating the impacts on a community. Develops and evaluates projected training requirements. May be delivered online.

ESMG 3350 Analytical Research Approaches to Public Emergency Services
3:3:0 Spring
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
Explores basic research designs, the use of selective analytical tools, and common issues faced by public emergency services managers. Examines tools and techniques using research methods to facilitate the decision making process in public emergency services organizations. May be delivered online.
Course Descriptions

ESMG 3600 (Cross-listed with: CJ 3600) Psychology of Emergency Services 3:3:0
* Prerequisite(s): ENGL 2010 or ENGL 2020) and University Advanced Standing
Examines the general psychological aspects of police, fire, and emergency medical services responders including dimensions of personality, family, organizational, cultural and diversity issues. Examines models of emergency and crisis decision making. Analyzes stress, anxiety, and trauma theories and clinical issues and examines current interventions being used for related disorders and building resilience. May be delivered online.

ESMG 4150 Humanitarian Services and Disaster Relief 3:3:0 On Sufficient Demand
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
Examines both the theoretical and applied aspects of complex humanitarian emergencies and reviews disasters in the context of humanitarian relief. Explores the needs of displaced persons and the systems and practices currently in place to meet these needs. Reviews the principles of preparedness, resilience, and sustainability in terms of short-term response to disasters and long-term community recovery. May be delivered online.

ESMG 4200 Disaster Response and the Public 3:3:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G or department approval
Prepares emergency services students to respond effectively to public information needs in both day-to-day emergency circumstances as well as in more extreme disaster conditions. Explores the theory and develops skills to effectively respond in crisis situations. Presents case studies in crisis response that demonstrate how information can help the public prepare, respond, and recover from disasters. This course will be offered as a hybrid or online course. May be delivered online.

ESMG 425G Crisis and Disaster Management 3:3:0
* Prerequisite(s): ENGL 1010, ESMG 310G, or departmental permission. University Advanced Standing
Deals with the operations side of humanitarian action. Establishes principles that can be used in local, national, and international relief efforts. Applies best practices from emergency management to the field of humanitarian services and disaster relief. Meets the global and international requirements to foster greater understanding of, interaction with, and appreciation for, cultures that reflect the diversity present within the local and campus communities, up to the larger state and global context.

ESMG 4400 Legal Considerations for the Emergency Services 3:3:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
Examines regulatory, political, and social aspects of government's role in emergency services agencies, including regulatory issues, emergency services operations, employment, personnel issues, roles, legislative issues, and political influence. May be delivered online.

ESMG 445G (Cross-listed with: CJ 445G) Human Factors in Emergency Management 3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Introduces students to an emergency response approach to understanding hazards and disasters grounded in social vulnerability analysis. Examines historical, geographical, social, and cultural factors and conditions that put people differentially at risk before, during, and after disasters. Utilizes a multi-disciplinary approach. Focuses on global, national, regional, and local patterns of development. Explores how vulnerable social groups are affected by and cope with hazardous conditions and events, and strategies for community-based mitigation engaging those most at risk. May be delivered online.

ESMG 4500 Customer Service and Marketing for the Emergency Services 3:3:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
Explores the principles and importance of customer oriented service delivery within the emergency services. Looks at current practices and delves into emerging needs and solutions for marketing and public relations. Includes research and critical thinking strategies for local, national, and global perspectives on customer service. May be delivered online.

ESMG 4550 Principles of Disaster and Emergency Management 3:3:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
Introduces the student to the need for and creation of comprehensive emergency planning operations. Explores risk assessment techniques and critical analysis strategies for communities and governmental agencies. Teaches the components of a comprehensive emergency plan and presents the National Incident Management System (NIMS), mandated by presidential directive. May be delivered online.

ESMG 4600 Public Administration and Emergency Management 3:3:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
For Public Emergency Services Management students. Examines the relationship between the emergency management function in government and the professional field of public administration. Topics include public policy making, implementation and analysis, disaster analysis, problem solving and solution formulation. May be delivered online.

ESMG 4650 Emergency Services Capstone 3:3:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
Public Emergency Services Management capstone course. Examines cutting-edge issues under the guidance of top professionals. Includes interviews with local and state officials to identify potential critical issues. Discusses personal leadership philosophy and strategies for decision making. May be delivered online.

ESMG 481R Emergency Services Internship 1 to 8:0:5 to 40 Fall, Spring, Summer
* Prerequisite(s): ENGL 2010, (ESFF 1000 or sufficient emergency services experience), and University Advanced Standing
For upper-division students working toward a Bachelor of Science Degree in Emergency Services Management. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. May be repeated for a maximum of 16 credits toward graduation. May be graded credit/no credit. May be delivered online.

ESMG 489R Special Topics in Emergency Management 1 to 6:1 to 6:0 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ESMG 310G
Provides students the opportunity to study special leadership topics in Emergency Management. Requires students to identify standard leadership topics and evaluate their application to Emergency Services. Calls for the creation of a significant research paper that is characteristic of the Emergency Leadership discipline and worthy of communication to a broader audience. May be repeated for a maximum of 9 credits toward graduation. May be delivered online.

ESMG 491R Topics in Cardiology and Medical Trends 1 to 3:1 to 3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 2010, (ESFF 1000 or departmental approval), and University Advanced Standing
Surveys a specific topic in cardiology and medical trends related to Emergency Medicine. Topic varies each semester. May be repeated for a maximum of 6 credits toward graduation. May be delivered online.
E3MG 492R
Topics in Trauma and Pharmacology
1 to 3:1 to 3:0  Fall, Spring, Summer
* Prerequisite(s): ENGL 2010, (ESFF 1000 or departmental approval), and University Advanced Standing

Surveys a specific topic in trauma and pharmacological trends. Topic varies each semester. May be repeated for a maximum of 6 credits toward graduation. May be delivered online.

E3MG 493R
Topics in Medical Litigation
1 to 4:1 to 4:0  Fall, Spring, Summer
* Prerequisite(s): ENGL 2010, (ESFF 1000 or departmental approval), and University Advanced Standing

Surveys a specific topic in medical litigation. Topic varies each semester. May be repeated for a maximum of 4 credits toward graduation. May be delivered online.

Emergency Services
Wildland Firefighter (ESWF)

ESWF 1310
S131 Firefighter Type 1
0.5:0.5:0  On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval.

Meets the training needs of a Type 1 Wildland Firefighter (FT1). Presents several tactical decision scenarios designed to facilitate learning the objectives and class discussion. Introduces the student to the Fireline Handbook and provides an overview of its application.

ESWF 1330
S133 Look Up Look Down Around
0.5:0.5:0  On Sufficient Demand
* Prerequisite(s): Meet NWCG pre-qualifications or departmental approval.

Examines the wildland fire environment and the indicators firefighters should observe on the fire line in order to anticipate fire behavior.

ESWF 1400
Wildland Firefighting Fundamentals
4:3:3  Fall, Spring

Designed to meet the Wildland Firefighter I knowledge and skill requirements of NFPA 1051, Wildland Fire Fighter Professional Qualifications. Teaches students to recognize the “Situations That Shut Out,” apply the appropriate Standard Fire Orders and how to deploy a fire shelter. Includes orientation to the Incident Command System. Teaches basic fireline construction, fire weather, and fire behavior. Each subject covered in this course meets and/or exceeds NWCG standards for the following classes: S-130, S-190, I-100, and L-180. Course fee of $118 for materials, specialized clothing, equipment, and state services & testing applies.

ESWF 1410
Wildland Firefighter Internship I
5:2:9  Summer
* Prerequisite(s): ESWF 1400 or departmental approval

Provides experience in fighting fires at wildfire and urban interface incidents. Studies wildland fire behavior, fire weather, and fire mitigation. Teaches size-up, chain of command, communications, strategy, and tactics. Includes developing water sources, learning engine tactics, understanding procedures for aircraft, firing and felling operations. Completers should develop skills beyond the entry level firefighter. May be graded credit/no credit. Course fee of $86 for specialized clothing, materials, and equipment applies.

ESWF 1420
Wildland Firefighter Internship II
5:2:9  Summer
* Prerequisite(s): ESWF 1410

Provides students with the training and experience that will assist them in gaining a job in wildland fire management and suppression. Features participation in a 20-person wildland fire suppression crew sponsored by the Utah Division of Forestry, Fire and State Lands. Also teaches about wildland fire behavior as well as fire suppression strategies and tactics. Requires students to participate in physically demanding assignments with long periods of time away from home. Exposes students to wildland fire and the various organizational and mechanical tools used to manage and suppress them, such as; aircraft, bulldozers, large engines and other fire management and suppression equipment. May be graded credit/no credit.

ESWF 2000
S200 Initial Attack Incident Commander Type 4
1:1:0  On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval.

Designed to meet the training needs of the ICT4 and is presented in a discussion/exercise format. Covers foundational skills, intelligence gathering and documentation, incident size up, development of a plan of action, post-fire activities, evaluation of incident objectives and incident management. Meets and/or exceeds NWCG standards for S-200.

ESWF 2010
I200 Basic Incident Command System
1:1:0  On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval.

Introduces the principles of the Incident Command System (ICS) associated with incident-related performance. Includes leadership and management, delegation of authority, management by objectives, functional areas and positions, briefings, organizational flexibility, transitions and transfers. Built on the same lesson objectives and content as the NWCG I-200 course.

ESWF 2110
S211 Portable Pumps and Water Use
1.5:1:5:0  On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval.

Covers three skill areas: supply, delivery, and application of water. Includes correct water use, basic hydraulics, and equipment care. Requires set up, operation, and maintenance of pump equipment in the field exercise. Meets and/or exceeds NWCG standards for S-211.

ESWF 2150
S215 Fire Operations in the Wildland Urban Interface
2:2:0  On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval.

Designed to assist structure and wildland firefighters who will be making tactical decisions when confronting wildland fire that threatens life, property, and improvements in the wildland/urban interface. Includes interface awareness, size-up, initial strategy and incident action plan, structure triage, structure protection tactics, incident action plan assessment and update, follow up and public relations, and firefighter safety in the interface. Meets and/or exceeds NWCG standards for S-215.

ESWF 2301
S230 Crew Boss Single Resource
2:2:0  On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval.

Designed to produce student proficiency in the single resource boss position from initial dispatch through mobilization to the home unit. Topics include: operational leadership, preparation and mobilization, assignment preparation, risk management, entrapment avoidance, safety and tactics, offline duties, demobilization, and post incident responsibilities.

ESWF 2340
S234 Ignition Operations
2:2:0  On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval.

Provides training in the fundamental roles and responsibilities connected with the firing operations. Covers planning, ignition procedures and techniques, and equipment applicable to wildland and prescribed fire. Also addresses the role of the ignition specialist or firing boss as the organization manages escalation from a non-complex to a complex fire situation.

ESWF 2430
Wildland Firefighter Internship III
5:2:9  Summer
* Prerequisite(s): ESWF 1420 and departmental approval.

Increases the level of leadership training and responsibility for individual firefighters. Includes work on Advanced Firefighter/Squad Boss Task book. Teaches and improves upon the following skills; firefighter safety, supervision, communication, situational awareness and other fire suppression skills needed to advance to the Squad boss level. Offers valuable experience in wildland fire suppression techniques as well as safety and organizational skills. May be graded credit/no credit.

ESWF 2600
S260 Interagency Incident Business Management
1:1:0  On Sufficient Demand
* Prerequisite(s): Meet NWCG Prequalifications or departmental approval.

Studies the human resources aspect of emergency services in depth. Concentrates on the personnel issues associated with day to day emergency service organizational management Includes topics of ethical conduct, recruitment, resources, and financial management.
Course Descriptions

ESWF 2700
S270 Basic Air Operations
1:1:0 On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval.
Introduces aircraft types and capabilities, aviation management and safety for flying in and working with agency aircraft, tactical and logistical uses of aircraft, and requirements for helicopter take-off and landing areas. Addresses regulations, procedures and policies that primarily govern federal agency and ICS operations. Meets and/or exceeds NWCG standards for S-270.

ESWF 2800
L280 Followership to Leadership
1:1:0 On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval.
Provides a self-assessment opportunity for individuals preparing to step into a leadership role. Includes leadership values and principles, transition challenges for new leaders, situational leadership, team cohesion factors, ethical decision-making, and after action review techniques.

ESWF 2900
S290 Intermediate Wildland Fire Behavior
2:2:0 On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval.
Designed to prepare the prospective fireline supervisor to undertake safe and effective fire management operations. Second course in a series that collectively serves to develop fire behavior prediction knowledge and skills.

ESWF 3000
S300 Incident Commander Extended Attack
1:1:0 On Sufficient Demand
* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing
Designed to meet the training needs of the Incident Commander Type 3 (ICT3). Focuses on the lessons of leadership and command as they relate to the ICT3 position. Includes multiple tactical decision games for students to practice new knowledge. Covers foundation skills, situational awareness, command and control, managing the incident, transitional activities, post-fire activities and a final simulation.

ESWF 3300
S330 Task Force Strike Team Leader
1.5:1.5:0 On Sufficient Demand
* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing
Introduces aircraft types and capabilities, aviation management and safety for flying in and working with agency aircraft, tactical and logistical uses of aircraft, and requirements for helicopter take-off and landing areas. Addresses regulations, procedures and policies that primarily govern federal agency and ICS operations. Meets and/or exceeds NWCG standards for S-270.

ESWF 3360
S336 Tactical Decision Making in Wildland Fire
1.5:1.5:0 On Sufficient Demand
* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing
Teaches the application of risk management processes found in the Incident Response Pocket Guide (IRPG) to various incidents. Includes scenarios and exercises that assess the application of tactics specific to wildland fire suppression.

ESWF 3390
S339 Division or Group Supervisor
1.5:1.5:0 On Sufficient Demand
* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing
Prepares students to perform in the role of division/group supervisor. Includes division/group management, organizational interaction, division operations, and all-hazard operations. May include tactical decision games.

ESWF 4000
I400 Advanced Incident Command System
1.5:1.5:0 On Sufficient Demand
* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing
Provides an operational understanding of large single-agency and complex multi-agency/multi-jurisdictional incident responses. Topics include: review for command and general staff, major and/or complex incident/event management, area command, and multi-agency coordination.

ESWF 4390
S390 Introduction to Wildland Fire Behavior Calculations
2:2:0 On Sufficient Demand
* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing
Introduces fire behavior calculations by manual methods, using nomograms and the Fire Behavior Handbook. Covers the determinants of fire behavior though studying inputs (weather, slope, fuels, and fuel moisture). Teaches how to interpret fire behavior outputs, documentation processes, and fire behavior briefing components.

Exercise Science (EXSC)

EXSC 2500
Sports Medicine
3:3:0 Fall, Spring, Summer
* Prerequisite(s): EXSC Majors: ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), and Pre or Co-requisite EXSC 270G all with a C- or higher and MATH 1050. PETE Majors: ZOOL 1090 and Pre or Co-requisite PETE 270G both with a C- or higher and MATH 1050.
Explores the term Sports Medicine and the field it covers. Instruction on injury management, including record keeping, assessment, and steps to recovery. Teaches an understanding of different tissues' response to injury. Investigates different imaging techniques used in assessment. Gives an understanding of surgical considerations for specific injuries.

EXSC 2510
Sports Medicine Lab
1:0:3 Fall, Spring, Summer
* Corequisite(s): EXSC 2500
Teaches taping and wrapping techniques for prevention/treatment of sports related injuries. Teaches evaluation techniques for the major joints of the body. Course fee of $32 for supplies, lab applies.

EXSC 270G
Foundations of Exercise Science
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L) all with a C- or higher, and MATH 1050.
Introduces the study of the Exercise Sciences and discusses the global influence on the development of the field. Studies the national and international history and philosophy of the field of Exercise and sport science. Analyzes problems in areas covered under the umbrella of Exercise Science and Physical Education. Explores related career and employment opportunities in this area.

EXSC 3270
Exercise Testing and Prescription
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), and Pre or Co-requisite EXSC 270G all with a C- or higher and MATH 1050, and University Advanced Standing
Teaches key concepts related to exercise testing and program design for healthy populations and populations with controlled disease. Explores concepts in team, group, and individualized assessment and programming. Emphasizes principles in anatomy, exercise physiology, behavior modification, motivation, health promotion, fitness assessment and prescription. Encourages students to sit for the ACE, IDEA, ACSM HFY, NSCA CPT, or similar certification exams upon course completion. Course fee of $20 for supplies, lab applies.
Course Descriptions

**EXSC 3400**
Statistical Analysis in Exercise Science 3:3:0 Not Offered
* Prerequisite(s): (MATH 1050 or higher) and University Advanced Standing

Provides an introduction to statistics, as well as the role of statistics in experimental design that is necessary to evaluate data collected from measurements commonly used in exercise science, health, physical education and recreation.

**EXSC 3500**
Kinesiology 3:3:0 Fall, Spring, Summer
* Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), and EXSC 270G all with a C- or higher and MATH 1050. PETE Majors: ZOOL 1090 and PETE 2700 both with a C- or higher and MATH 1050. REC Majors: ZOOL 1090 and REC 2200 both with a C- or higher and MATH 1040 or MATH 1050. All: University Advanced Standing.

Studies human movement. Includes the structure of the human body and fundamental mechanics. Emphasizes kinesiological and mechanical analysis.

**EXSC 3550**
Motor Learning and Control 3:2:2 Fall, Spring, Summer
* Prerequisite(s): EXSC Majors: ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), and Pre or Co-requisite EXSC 270G all with a C- or higher and MATH 1050. PETE Majors: ZOOL 1090 and Pre or Co-requisite PETE 2700 both with a C- or higher and MATH 1050. REC Majors: ZOOL 1090 and Pre or Co-requisite REC 2200 both with a C- or higher and MATH 1040 or MATH 1050. All: University Advanced Standing.

Examines motor and cognitive characteristics of individuals involved in learning or performing motor skills. Examines conditions that influence learning. Analyzes how humans learn complex movement skills and control voluntary, coordinated movement. Analyzes the basic psychological processes involved in learning and control of movement and their effect on instruction and practice conditions for the learner. Studies motor development and its effect on skill acquisition. Course fee of $14 for equipment, software applies.

**EXSC 3700**
Exercise Physiology 3:3:0 Fall, Spring, Summer
* Prerequisite(s): EXSC Majors: ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), and EXSC 270G all with a C- or higher and MATH 1050. PETE Majors: PETE 2700 and ZOOL 1090 with a C- or higher and MATH 1050. All: University Advanced Standing.

Studies acute and chronic physiological responses to exercise, as well as nutritional and environmental effects on these responses. Requires separate weekly laboratory.

**EXSC 3705**
(Cross-listed with: ZOOL 3705) Exercise Physiology Laboratory 1:0:3 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Corequisite(s): EXSC 3700

Studies acute and chronic physiological responses to exercise, as well as nutritional and environmental effects on these responses. Offers hands-on experience where students experience physiological responses to different stressors in a lab setting. Course Lab fee of $28 for materials applies.

**EXSC 3730**
Biomechanics 3:3:0 Fall, Spring
* Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), EXSC 270G and EXSC 3500 all with a C- or higher, and MATH 1050, and University Advanced Standing

Emphasizes the application of engineering principles and technology in sports performance through interdisciplinary methodologies. Includes human gait analysis, locomotion, trunk biomechanics, computer modeling, and tissue biomechanics. Course fee of $20 for equipment, supplies, and lab applies.

**EXSC 3750**
Psychosocial Aspects of Human Performance 2:2:0 Fall, Spring, Summer
* Prerequisite(s): EXSC Majors: ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), and Pre or Co-requisite EXSC 270G all with a C- or higher and MATH 1050. PETE Majors: ZOOL 1090 and Pre or Co-requisite PETE 2700 both with a C- or higher and MATH 1050. REC Majors: ZOOL 1090 and Pre or Co-requisite REC 2200 both with a C- or higher and MATH 1040 or MATH 1050. All: University Advanced Standing.

Provides students with the necessary skills and understanding to adequately deal with the psychological and social aspects of human and sport performance. Develops techniques and psychological skills to enhance performance and establish a learning and social environment that would enhance the effectiveness of coaches and maximize the skill and personal growth of athletes.

**EXSC 3850**
Ethical Concerns in Exercise Science 3:3:0 Fall, Spring
* Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), and Pre or Co-requisite EXSC 270G all with a C- or higher and MATH 1050 and University Advanced Standing

Surveys applied concepts of ethical codes and legal liability. Explores systems used by community and adventure education programs for aspects protective of participants, staff, and institutions.

**EXSC 4000**
Clinical Exercise Physiology 3:2:3 Fall, Spring
* Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), ZOOL 270G, and EXSC 3270 all with a C- or higher and MATH 1050, and University Advanced Standing

Emphasizes information and skills related to exercise testing and prescription in healthy and clinical populations. Teaches American College of Sports Medicine (ACSM) exercise testing guidelines.

**EXSC 4100**
Fitness Across the Lifespan 3:3:0 Fall, Spring
* Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), and Pre or Co-requisite EXSC 270G all with a C- or higher and MATH 1050, and University Advanced Standing

Addresses key issues relative to fitness across the lifespan; including, fitness in youth, adult fitness, aging, physical activity program design and implementation, attrition, behavior modification, and the role of exercise in disease prevention and/or management.

**EXSC 4200**
Exercise Metabolism 3:3:0 Fall, Spring
* Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), EXSC 270G all with a C- or higher and MATH 1050, and University Advanced Standing

Examines how exercise affects the functioning of human and animal organisms at the molecular level. Focuses on the tools of basic principles of biochemistry and teaches how to use the tools to understand how exercise affects metabolism. Studies how to use biochemical tests to assess an exercising person’s health and performance.

**EXSC 4300**
Research Methods in Exercise Science and Outdoor Recreation 3:3:0 Fall, Spring, Summer
* Prerequisite(s): EXSC Majors: ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), and Pre or Co-requisite EXSC 270G all with a C- or higher and MATH 1050. REC Majors: ZOOL 1090 and Pre or Co-requisite REC 2200 both with a C- or higher and MATH 1040 or MATH 1050. All: University Advanced Standing.

Introduces students to key research in their field. Emphasizes analytical and interpretive skills. Develops scientific writing skills. Promotes design and utilization of comprehensive research methodologies commonly applied in Exercise Science and Outdoor Recreation.
Course Descriptions

EXSC 4500 Advanced Sports Nutrition 3:3:0 Fall, Spring * Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), EXSC 270G, and EXSC 3705 all with a C- or higher and MATH 1050, and University Advanced Standing
Emphasizes concepts related to physical activity promotion in the community. Critically reviews literature associated with physical activity programming in communities including barriers to physical activity participation, behavioral change theory, and social, environmental, and biological factors that influence physical activity behavior. Promotes application of concepts developed in class through introductory supervised field experience.

EXSC 4410 Promoting Physical Activity in the Community Field Experience 1:0:4 Fall, Spring * Prerequisite(s): University Advanced Standing * Corequisite(s): EXSC 4400
Provides complementary field experiences for students taking EXSC 4400 (Physical Activity Promotion in the Community).

EXSC 4550 Principles of Strength and Conditioning 3:3:0 Fall, Spring * Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), EXSC 270G and Pre or Co-requisites EXSC 3700 and 3705 all with a C- or higher and MATH 1050, and University Advanced Standing
Provides exercise science students with a comprehensive understanding of basic nutritional principles as they relate to sports.

EXSC 4700 Advanced Gross Motor Assessment 3:3:0 Fall, Spring * Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), EXSC 270G, EXSC 2500 and EXSC 3500 all with a C- or higher and MATH 1050, and University Advanced Standing
Provides the students with advanced instruction on and the development of knowledge, skills and abilities to be able to safely and effectively evaluate and interpret/qually gross motor function. Includes but is not limited to surface anatomy, boney and soft tissue palpation, Range of Motion (ROM), muscular strength, neurologic enervation and stress tests of supportive structures.

EXSC 481R Internship in Exercise Science 1 to 8:0:5 to 40 Fall, Spring, Summer * Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), EXSC 270G and Pre or Co-requisites EXSC 3700 and 3705 all with a C- or higher and MATH 1050, and University Advanced Standing
Provides students with hands-on professional experience in the field of exercise science. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

EXSC 489R Undergraduate Research for Exercise Science 1 to 4:0:5 to 20 Fall, Spring, Summer * Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), EXSC 270G all with a C- or higher and MATH 1050, and University Advanced Standing
Provides the students with advanced instruction on and the development of knowledge, skills and abilities to be able to safely and effectively evaluate and interpret/qually gross motor function. Includes but is not limited to surface anatomy, boney and soft tissue palpation, Range of Motion (ROM), muscular strength, neurologic enervation and stress tests of supportive structures.

EXSC 4950 Senior Seminar 2:2:0 Fall, Spring * Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), EXSC 270G and EXSC 3705 all with a C- or higher and MATH 1050, and University Advanced Standing
Emphasizes critical evaluation of classic and current research in Exercise Science. Promotes research and writing skills within the discipline of Exercise Science. Promotes student centered learning and supports specialization within the field of Exercise Science.

Facilities Management (FAC)

FAC 1010 Survey of Facilities Management 3:3:0 Spring
Orients Facilities Management (FAC) majors with core responsibilities in the industry. Uses case studies and theory to gain experience with problem solving and resource management.

FAC 1020 Space Planning and Management 3:3:0 On Sufficient Demand
Focuses on the forecasting, growth, planning, allocation, and management of occupied space. Discusses the role of the facilities manager in planning and managing growth.

Family Studies (FAMS)

FAMS 101G Contemporary Families 3:3:0
Expands students' awareness of variations within families due to form, culture, and other factors. Focuses on areas of kinship, family organization, traditions, interpersonal relationships, parenting practices, values and beliefs, and prejudice. May be delivered online.

FAMS 1150 Marriage and Relationship Skills 3:3:0 Fall, Spring, Summer SS
Guides students in building a lasting intimate relationship of their own and in understanding and teaching relationship maintenance and improvement strategies based on large-scale scientifically derived marriage and relationship principles. Utilizes cutting edge research on factors and issues related to relationship success and outcome including whom and when to marry and how to build stable and happy relationships over time. Stresses increased understanding of desirable relationship outcomes and how to achieve them. May be delivered hybrid and/or online.

FAMS 3250 Applied Parenting 3:3:0 Fall, Spring * Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing
Exposes students to classical and contemporary parenting theory, research, and practice. Focuses on the application of the guidance of children. Includes the study of parenting concepts, challenges, risks, and alternatives while considering the social, physical, emotional, intellectual, and spiritual environments of the child.
FAMS 4300
Family Dispute Resolution
3:0
* Prerequisite(s): BESC 3410 or COMM 3410 or instructor approval; and University Advanced Standing
Builds on fundamentals learned in the basic mediation course. Reviews research and theories on family dynamics and conflicts. Examines the most effective mediation approaches, techniques, and skills for resolving family disputes. Presents information on specialized family mediation situations such as family mediation divorce, parent/teen, adoption, elder care. Prepares students to effectively participate in family mediations by utilizing an interactive workshop format with role-play, observation and actual mediations.

FAMS 4400
Family Policy
3:0
* Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing
Creates an understanding of the role of family professionals as advocates for the institution of the family. Covers family theories and research methods which aid in critically analyzing current policy development and implementation patterns in Utah and the United States. Utilizes the developmental theory in support of advocacy for family members in all their diverse structures, ages, and life stages. May be delivered hybrid.

FAMS 4500
Family Life Education Methodology
3:0
Fall, Spring
* Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing
Explores the field of family life education. Includes the history, development, and theory of family life education, as well as discusses the types of family life education programs. Develops the knowledge and practical skills that are required to identify needs, design programs, teach family life education, facilitate groups, and evaluate participants and programs in a wide variety of settings with a broad range of populations. Develops an appreciation for the impact of diversity in family life education which includes an awareness of multicultural factors, family structure, culture, economics, gender, race, religion, disability, ageism, and sexual orientation.

FAMS 4660
Family Financial and Resource Management
3:0
Fall, Spring
* Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing; SOC 1200 strongly recommended
Introduces students to the fundamentals of family financial management. Focuses on norms, roles, values, and traditions of financial management in family systems. Emotional, subjective, and unstructured patterns which contribute to financial mismanagement are evaluated. Personal and social influences are considered, including, marketing, holidays, spending pressure, goal definition, and debt accumulation.

FAMS 4670
Family Dynamics and Systems
3:0
Fall, Spring
* Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing; SOC 1200 strongly recommended
Introduces the fundamentals of family dynamics and systems as they relate to family structure and function. Focuses on historical development, theoretical underpinnings, and applied utility of dynamics and systems. Includes boundary management, infraction, and renewal in contemporary family systems.

FAMS 4700
Introduction to Marriage and Family Therapy
3:0
* Prerequisite(s): FAMS 1150, PSY 3400, FAMS 4670, and University Advanced Standing
Exposes and familiarizes students to the field of marriage and family therapy. Addresses history, theory, prominent clinicians and modalities, and therapeutic topics and techniques. Develops the knowledge of such topics as the systemic nature of therapy. Focuses on knowledge of theory and specific topics in therapy rather than skill development. Other foci include research, training, professional issues, and ethics in the field.

FAMS 475R
Current Topics in Family Studies
1 to 3:1 to 3:0
* Prerequisite(s): FAMS 101G and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing
Presents a selected topic in Family Studies and will vary each semester. Requires a project demonstrating competency in the specific topic. May be repeated with different topics for nine credits toward graduation.

FAMS 480R
Senior Internship
1 to 8:0:5 to 40
* Prerequisite(s): Senior Standing in the Behavioral Science Department with an emphasis in Family Studies, BESC 3010, BESC 3020, FAMS 4500, permission of the instructor, and University Advanced Standing
* Prerequisite(s) or Corequisite(s): FAMS 485R
Provides practical and research experience interning in a governmental, corporate, or private agency apart from regular employment. Internship placements provide opportunities for contribution to the planning, design, implementation, and/or evaluation of family life educational programs. Supervised by agency representative. Requires faculty approval. May be repeated for up to 8 credits toward graduation. May be graded credit/no credit.

FAMS 485R
Internship Seminar
1:1:0
* Prerequisite(s): Junior standing in the Family Studies emphasis, BESC 3010, BESC 3020, FAMS 4500, permission of instructor, and University Advanced Standing
Provides integration of classroom learning with learning that takes place in an on-site internship. Intended to be taken concurrently with FAMS 481R or FAMS 482R. May be repeated for a maximum of 8 credits toward graduation. May be delivered online.

FAMS 490R
Independent Study
1 to 3:1 to 3:0
* Prerequisite(s): BESC Department major; instructor approval and University Advanced Standing
Requires students to complete a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. May include writing a publishable paper, passing a competency exam, producing an annotated bibliography, oral presentation, or other options as approved by instructor. May be repeated for a maximum of six credits toward graduation.

Fine Arts Music and Theatre (FAMT)

FAMT 281R
Cooperative Work Experience
2 to 9:1:5 to 40
* Prerequisite(s): Approval of Cooperative Coordinator
Designed for Fine Arts majors. Provides paid work experiences in the student's major. Course content is individualized, with students setting objectives in consultation with their faculty coordinator and their on-the-job supervisor. Credit is determined by the number of hours a student works during the semester. May be repeated four times for credit. May be graded credit/no credit.

Finance (FIN)

FIN 1060
Personal Finance
3:0
Fall, Spring
* Prerequisite(s): Approval of Cooperative Coordinator
Provides as elective credit toward a business degree and for individuals interested in acquiring personal financial planning skills. Covers personal financial management with emphasis on decision making, budgeting, financial institutions, personal and family risk management, credit management, and estate planning. Methods include lectures, guest speakers, films, tapes, computer simulations and research. Completers should be able to prepare complete personal budgets and other family financial planning instruments. May be delivered hybrid and/or online. Lab access fee of $52 for computers applies. Canvas Course Mats $68/McGraw applies.
### Course Descriptions

**FIN 3060 Introduction to the PFP Profession**  
3:3:0 Fall, Spring, Summer  
* Prerequisite(s): MATH 1050 and University Advanced Standing  
Introduces the processes appropriate for entry into the personal financial planning (PFP) profession. Provides an overview of the skills and knowledge sets required to be a PFP professional including an outline of business models and practice management issues within the industry. Includes a review of basic PFP process such as the time value of money, cash and debt management, personal financial statement analysis, education funding, and related issues.

**FIN 3100 Principles of Finance**  
3:3:0 Fall, Spring, Summer  
* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing  
For bachelor's degree business management majors. Examines financial management in the business environment; time value of money; fundamentals of security valuation; the capital asset pricing model and capital budgeting. Introduces finance terminology and quantitative techniques used in financial analysis. Covers financial ratios and financial statement analysis, cost of capital, working capital policies, dividend policy, and a brief overview of international finance. May be delivered online. Lab access fee of $32 for computers applies. Canvas Course Mats $68/Cengage applies.

**FIN 3150 Financial Management**  
3:3:0 Fall, Spring  
* Prerequisite(s): FIN 3100 and University Advanced Standing  
* Prerequisite(s) or Corequisite(s): ECON 3340  
Examines financial aspects of firm decisions; presents theoretical underpinnings for financial management, together with quantitative techniques used to analyze financial questions. Covers financial analysis and planning; valuation methods; determination of required return; effect of capital structure decisions; funding alternatives; and corporate risk management. Requires analysis of a capital budgeting problem, including a written paper, quantitative analysis and presentation. Lab access fee of $32 for computers applies.

**FIN 3160 Financial Management for Accounting Majors**  
3:3:0 Not Offered  
* Prerequisite(s): FIN 3100, MATH 1050, and University Advanced Standing  
Prepares accounting majors with the information and skills necessary to prepare for the certified management accounting (CMA) accreditation process. Includes coverage of financial statement analysis, evaluation of profitability, managing financial risk, management of capital issues, and other financial decision making processes.

**FIN 3200 Financial Counseling**  
3:3:0 Spring  
* Prerequisite(s): FIN 3060, and University Advanced Standing  
Prepares students to be effective financial counseling practitioners. Trains students to begin their role as effective financial counselors and planners. Develops counselor and client relationships skills as well as communication techniques to help identify and assist clients in an integrated financial planning environment. Provides an overview of the learning process needed to recognize the financial issues and concerns of many individuals and families and how to appropriately recommend solutions to help clients help themselves, while focusing on counselor sincerity and effectiveness in client reality.

**FIN 3210 Retirement Planning**  
3:3:0 Fall  
* Prerequisite(s): FIN 3060, Matriculation into the Woodbury School of Business, and University Advanced Standing  
Examines the topics of retirement planning and retirement plans from both employer and individual client settings. Uses a case study approach to apply and integrate the material. Emphasizes the evaluation of financial alternatives. Provides learning activities that will facilitate student growth and development in written and oral communication skills.

**FIN 3220 Risk Management and Insurance**  
3:3:0 Spring  
* Prerequisite(s): FIN 3060, Matriculation into the Woodbury School of Business, and University Advanced Standing  
Examines risk management and insurance planning for individual clients as well as employers of small corporations. Teaches the development of risk management and insurance plans with economic and behavioral theory. Uses a case study approach to apply and integrate the material. Emphasizes evaluation of financial alternatives. Provides learning activities that facilitate growth and development in written and oral communication skills.

**FIN 3300 Tax Planning for Personal Financial Planners**  
3:3:0 Spring  
* Prerequisite(s): FIN 3060, Matriculation into WSB, and University Advanced Standing  
Examines the topic of income tax planning and forecasting for individual clients and small business owners. Uses a case study approach to integrate the material and apply it to personal financial planning situations. Emphasizes the evaluation of financial alternatives. Provides learning activities that will facilitate student growth and development in written and oral communication skills. Works with local practitioners to provide an engaged learning experience.

**FIN 3400 Investment Management**  
3:3:0 Fall, Spring, Summer  
* Prerequisite(s): FIN 3100 and University Advanced Standing  
Overviews the field of investments. Introduces stocks, bonds, put and call options, commodity and financial futures. Emphasizes both theory and practical aspects of investment management. Includes security valuation, market hypothesis, capital asset pricing, strategies of portfolio construction, performance measures, and risk/return relationships. Lab access fee of $32 for computers applies.

**FIN 3410 Management of Financial Institutions**  
3:3:0 Fall, Spring  
* Prerequisite(s): FIN 3060, and University Advanced Standing  
Overviews the field of investments. Introduces stocks, bonds, put and call options, commodity and financial futures. Emphasizes both theory and practical aspects of investment management. Includes security valuation, market hypothesis, capital asset pricing, strategies of portfolio construction, performance measures, and risk/return relationships. Lab access fee of $32 for computers applies.

**FIN 3410 Portfolio Management**  
3:3:0 Fall  
* Prerequisite(s): FIN 3400 and University Advanced Standing  
* Prerequisite(s) or Corequisite(s): ECON 3340  
Examines portfolio theory and applied techniques used in selecting appropriate securities and managing the risk and return of a portfolio, with a focus on meeting investment objectives. Considers both stock and bond portfolios, and includes discussion of market efficiency, diversification, measurement of risk and performance, bond duration and portfolio immunization, advanced bond pricing principles, bond swaps, term structure of interest rates, asset allocation, and portfolio hedging strategies.

**FIN 4170 Derivative Securities**  
3:3:0 Fall  
* Prerequisite(s): FIN 3100 and University Advanced Standing  
* Corequisite(s): ECON 3340  
Covers characteristics and institutional information about derivative securities, including forward and futures, options and swaps. Examines pricing models for these securities, risk inherent in derivative investments, and the role of derivatives in risk management. May include discussion of real options and other topics dealing with financial engineering.
FIN 4180
International Finance Management
3:3:0  Fall, Spring, Summer
* Prerequisite(s): FIN 3100, Departmental Approval, and University Advanced Standing

Examines financial aspects of firms operating in an international business environment. Includes currency valuation and forecasting; international flow of funds; foreign and international capital markets; valuation of multinational enterprises; and the effect of decisions about structure of the business and its transactions on firm value; and management of currency, political, and other risks arising from multinational operations. Lab access fee of $32 for computers applies.

FIN 4200
Financial Counseling Practicum
3:3:0  Spring
* Prerequisite(s): FIN 3060, FIN 3200, and University Advanced Standing

Examines financial counseling with an engaged and practical focus. Uses actual client data in a supervised environment to integrate the material and core learning objectives, then apply them to financial counseling situations. Emphasizes the evaluation of credit and debt management, housing decisions and budgeting and forecasting. Provides learning activities designed to facilitate student growth and development in written, oral, and presentation skills. Works with local practitioners to provide an engaged learning experience.

FIN 4210
Estate Planning Fundamentals
3:3:0  Spring
* Prerequisite(s): FIN 3060, Matriculation into the Woodbury School of Business, Departmental Approval, and University Advanced Standing

Overview of gift, estate, and generation skipping transfer taxation, including financial and estate planning applications. Applies gift, estate, and generation skipping transfer taxation rules to personal financial planning scenarios. Studies financial regulations and taxation policy. May be delivered hybrid.

FIN 4250
Personal Financial Planning Practicum
3:3:1  Not Offered
* Prerequisite(s): FIN 3200, FIN 3210, FIN 3220, FIN 4210, FIN 3400, ACC 3400, and University Advanced Standing

Examines practice management in various financial planning firms. Teaches the basics of practice management with an understanding of the core areas of personal financial planning. Uses a case study approach to apply and integrate the material and evaluate financial alternatives. Emphasizes the benefits and drawbacks of various management methods. Provides learning activities that will facilitate student growth and development in written and oral communication skills.

FIN 4270
Wealth Management Seminar
3:3:0  Spring
* Prerequisite(s): FIN 3060, Matriculation into the Woodbury School of Business, Departmental Approval, and University Advanced Standing

Introduction to investment theory, literature and theories which describe the unique process of household investment decision making, and an introduction to quantitative investment analysis and the instruments used to construct an efficient household portfolio. Uses quantitative and theoretical material which will require a basic knowledge of economics and finance, and the ability to work with spreadsheets. Applies practical concepts to prepare students to work as wealth managers in financial planning firms.

FIN 4290
Technological Applications in Personal Financial Planning
3:3:0  Spring
* Prerequisite(s): FIN 3060, Departmental Approval, and University Advanced Standing

Introduces various financial planning software packages. Includes both goal based and cash flow based financial planning software, client relationship management software, investment research software, portfolio management software, and office support software. Provides access to a variety of premier software companies in the U.S. and Canada. Certification in core software packages is required. Includes training material and standards as outlined by software companies.

FIN 4310
Real Estate Investment and Securities
3:3:0  Fall
* Prerequisite(s): FIN 3100 and University Advanced Standing

Examines real estate investments and debt and equity capital markets linked to real estate assets. Focuses primarily on real estate investments and valuation of debt and equity securities, including commercial and residential mortgages, real estate investment trusts, and mortgage-backed securities, and some related instruments such as CDOs. Examines the process of securitization and the secondary markets for real estate securities, together with the role of financial institutions in this sector. Provides an overview of real estate investment, measurement of prices, and fundamental determinants of value with particular attention given to the effect of interest rate risk, default risk, and the embedded prepayment options on the value of mortgages and mortgage-backed securities.

FIN 457R
Advanced Topics in Finance
3:3:0  Fall, Spring
* Prerequisite(s): FIN 3100, Instructor Approval, and University Advanced Standing

Uses case method, examination of current academic and professional literature and/or student research to explore selected finance topics in considerable detail. Emphasizes student analysis, exposition and presentation of information. May be repeated for a maximum of 6 credits toward graduation.

FIN 4800
Personal Financial Planning Capstone
3:3:0  Fall, Spring
* Prerequisite(s): FIN 3060, FIN 3210, FIN 3220, FIN 4210, FIN 3400, Departmental Approval, and University Advanced Standing

Develops the concept of a comprehensive plan. Reviews each of the major aspects of financial planning in the context of a comprehensive case, students will synthesize all information and create a comprehensive financial plan for a client. Analyzes the financial planning profession and the various types of financial planning models. Provides an overview of software applications as well as interview skills, data gathering, working with clients, presentation skills, and the creation of a comprehensive financial plan.

FIN 481R
Personal Financial Planning Internship
2 to 8:1:5 to 40  Fall, Spring, Summer
* Prerequisite(s): Departmental Approval and University Advanced Standing

Provides supervised, practical, and professional experience for students preparing for careers in Personal Financial Planning. May be repeated for a maximum of 8 credit hours toward graduation. May be graded Credit/No Credit.

FIN 482R
Internship
2 to 8:0:5 to 40  Fall, Spring, Summer
* Prerequisite(s): FIN 483R, Instructor Approval, and University Advanced Standing

For upper-division students in Finance. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job paid experience commensurate with upper-division classroom instruction. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. May be repeated for 6 credits toward graduation. May be graded credit/no credit.

FIN 483R
Colloquium in PFP Professionalism
1:1:0  Fall, Spring
* Prerequisite(s): Department Approval and University Advanced Standing

Prepares PFP Program students for internships and other professional development activities. Features industry professionals who interact with students and discuss opportunities within the industry and their specific professional practices. Covers special topics such as business etiquette, dressing for success, preparing professional resumes, correspondence, etc. May allow students to experience extended personal interaction with visiting professionals by hosting them, providing transportation to/from the airport, escorting them to local points of interest, and more. May be repeated for a maximum of 3 credits toward graduation.
Course Descriptions

FIN 6150
Financial Management
3:3:0 Fall
* Prerequisite(s): Acceptance in the MBA program and University Advanced Standing
Discusses corporate financial management cases and analyses dealing with problems of working capital management, capital budgeting, cost of capital evaluation, and corporate restructuring.

French (FREN)

FREN 1010 LH
Beginning French I
4:4:1 Fall, Spring
Emphasizes understanding, speaking, reading and writing skills. Basic language usage and cultural understanding are acquired through an activity-based approach. Lab access fee of $10 applies.

FREN 1020 LH
Beginning French II
4:4:1 Fall, Spring
* Prerequisite(s): Students need equivalent knowledge of FREN 1010
Completes the first year of study. Includes the remaining grammar, language concepts, and culture, and introduces students to literature in French. Lab access fee of $10 applies.

FREN 115R
French Conversation I
1:1:0
Offers novice French speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen listening comprehension for natural conversational flow. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

FREN 1500 LH
French Travel Study
3:1:6 On Sufficient Demand
Introduces students to a French-speaking foreign country for a minimum of 10 days of intensive language and culture study. Course entails several meetings prior to departure and at least one after the return home to facilitate observation and analysis of data to be gathered on the tour. An organized presentation of that data will be contained in a multimedia project due no later than one month after tour.

FREN 2010 LH
Intermediate French I
4:4:1 Fall, Spring
* Prerequisite(s): Students need equivalent knowledge of FREN 1020
Reviews grammar, reading, writing, and conversation skills learned throughout the first year. Introduces readings and discussions on the history, culture, and literature of the French world. Lab access fee of $10 applies.

FREN 202G LH
Intermediate French II
4:4:0 Spring
* Prerequisite(s): Students need equivalent knowledge of FREN 2010
Emphasizes reading, writing, and conversational skills through socio-cultural studies in history, literature and art. Lab access fee of $10 applies.

FREN 2050
Advanced French Grammar and Composition
3:3:0 On Sufficient Demand
* Prerequisite(s): FREN 202G or equivalent
Explores grammar of French focusing on areas typically difficult for English speakers. Provides extensive instruction in, and opportunity for the students' improvement in language production, both oral and written. Completers should improve considerably their ability to express themselves in the foreign language both orally and in written form.

FREN 215R
French Conversation II
1:1:0
* Prerequisite(s): Students should have equivalent knowledge of FREN 2010
Offers lower division / novice speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

FREN 3030 LH
French Composition and Conversation
3:3:0
* Prerequisite(s): (FREN 202G or instructor approval) and University Advanced Standing
Advances mastery of French grammar while emphasizing production skills of speaking and writing. Expands reading and listening skills to a lesser degree. Reviews and extends lexical depth. Allows students without experience living in a French immersion setting to advance in their communication skills to where they may participate more comfortably in future upper division courses with other students who do have immersion experience. Offers a variety of topics presented in a variety of media as content basis for real communicative practice in French. Conducts all course work primarily in French.

FREN 3040
Introduction to Literary Genres in French
3:3:0 On Sufficient Demand
* Prerequisite(s): (FREN 202G or equivalent) and University Advanced Standing
Explores different literary genres in the French language throughout the centuries. Provides extensive opportunity for improvement in oral and reading/writing development of language skills, as well as new ways of thinking about literature in cultural contexts. Completers should considerably improve their ability to express themselves in the foreign language. Taught entirely in French.

FREN 3050 LH
Advanced French
3:3:0 Fall, Spring
* Prerequisite(s): FREN 3040, one year residency in French speaking country, or placement test
Continues to emphasize reading, writing, and conversational skills through studies in literary and other texts, including films dealing with Francophone cultures. Includes an in depth review of grammar. Lab access fee of $10 applies.

FREN 3200 LH
Business French
3:3:0 On Sufficient Demand
* Prerequisite(s): (FREN 3050 or equivalent knowledge) and University Advanced Standing
For those who plan to pursue careers in international business or related fields, learn French business language, understand French corporate culture, or plan to major or minor in French. Teaches French business terminology and prepares students to take the Chambre de Commerce et d'Industrie de Paris exam. Explores technological, personal, and professional aspects of business. Will be taught entirely in the French language. Lab access fee of $10 applies.

FREN 351G
Culture and Civilization to 1700
3:3:0
* Prerequisite(s): FREN 3050 and University Advanced Standing
Explores chronologically to 1700 the formation and development of French speaking societies and cultures. Traces the ethnic development and linguistic history of these societies and peoples, as well as examines manifestations of their aesthetic endeavors. Presentations and class instruction conducted entirely in French.
FREN 352G
Culture and Civilization from 1700
3:3:0
* Prerequisite(s): FREN 3050 and University Advanced Standing

Explores chronologically to 1700 the formation and development of French speaking societies and cultures. Traces the ethnic development and linguistic history of these societies and peoples, as well as examines manifestations of their aesthetic endeavors. Presentations and class instruction conducted entirely in French.

FREN 353G
Contemporary French Civilization and Culture
3:3:1
* Prerequisite(s): (FREN 3050 or equivalent) and University Advanced Standing

Examines contemporary French culture topics (family, education, love and the couple, religion, social challenges, governmental functions, etc.) through studying a variety of French sources: readings, film, lecture, individual research, etc. Analyzes topics through active class discussion in French. Integrates new cultural perspectives in papers and assignments researched and written in French. Conducted entirely in French.

FREN 3610
French Literature to 1700
3:3:0
On Sufficient Demand
* Prerequisite(s): (FREN 3050 or equivalent knowledge) and University Advanced Standing

Introduces chronologically to 1700 representative French authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the French language. Presentations and class instruction conducted entirely in French.

FREN 3620
French Literature from 1700
3:3:0
On Sufficient Demand
* Prerequisite(s): (FREN 3050 or equivalent knowledge) and University Advanced Standing

Introduces chronologically from 1700 representative French authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the French language. Presentations and class instruction conducted entirely in French.

FREN 4200
Advanced Business French
3:3:0
On Sufficient Demand
* Prerequisite(s): (FREN 3200 or equivalent knowledge) and University Advanced Standing

For those taking the exam leading to the Diplome de francais des affaires (DFA 2) awarded by the Chambre de Commerce et d'Industrie de Paris. Emphasizes case studies, marketing, resumes, cover letters, job interviews, computers, and the Internet. Taught entirely in French.

FREN 4500
Advanced Writing in French
3:2:3
* Prerequisite(s): (FREN 3030 and FREN 3040) or FREN 3050 and University Advanced Standing

Increases students' accuracy, clarity and use of appropriate registers when writing in French. Informs them of the significant roles played by form, content and intentionality of discourse in their writing, and improves their skills in addressing the requirements of those various roles.

FREN 490R
Special Topics in French
3:3:0
On Sufficient Demand
* Prerequisite(s): (FREN 202G or instructor approval) and University Advanced Standing

Studies topic in detail not offered in other courses. Addresses key aspects of the topic. Engages students in critical analysis and discourse. Develops language skills requisite to such analysis and specific to the topic. Possible topics include French Film, Translation and Interpretation, Francophone Literature, Women's Texts, Courtly Love. Conducted entirely in French. May be repeated for up to 9 credit hours towards graduation.

FSCI 3400
Criminalistics
3:3:0
Fall, Spring
* Prerequisite(s): CJ 1350 with a C+ or higher and University Advanced Standing

Analyzes different kinds of physical evidence in a laboratory setting. Introduces the theory and operation of basic analytical techniques and instruments. Discusses laboratory safety. Reviews the metric measurement system. Uses chromatography to separate and identify the individual components of mixtures. Uses stereo and compound light microscopes to visually examine evidence. Uses spectrometry for color and chemical composition studies. Course Lab fee of $142 for materials applies.

FSCI 3500
Footwear Impression Evidence
3:2:3
Spring
* Prerequisite(s): (CJ 1350 or FSCI 3400 each with a C+ or higher) and University Advanced Standing

Presents the history of footwear evidence and introduces the examination of footwear impressions. Presents the anatomy of the human foot, its relationship to the manufacturing process, and resulting impressions. Explains crime scene protection and searching procedures. Explains why footwear impressions are overlooked and how to find them. Identifies and lists the basic equipment needed for footwear recovery at the crime scene. Identifies applicable chemical reagents used to visualize footwear impressions. Teaches lighting and other enhancements used to record and preserve footwear evidence. Recovers footwear evidence through photography, lifting, and casting. Teaches the methodology of footwear identification by image comparison techniques. Course fee of $128 for materials applies.

FSCI 3520
Tire Imprint Evidence
3:2:3
Fall
* Prerequisite(s): (CJ 1350 or FSCI 3400 each with a C+ or higher) and University Advanced Standing

Presents a brief history of the tire and tire sales. Explains the mechanics of the tire tread and sidewalls resulting in distinctive wear patterns. Teaches Crime Scene and Traffic Accident Investigation: recording tire imprints, wheelbase and tire tread stance measurements. Describes the Tire Imprint Identification System: tire noise treatments, wear indicators, test tire impressions, and tire tread drawings. Explains what can be learned without a suspect's vehicle. Explains what can be learned when you do have a suspect's tire. Advises on preparing for trial and obtaining a consultant. Presents one case from the beginning to end. Presents a test case example on tire imprint identification.

FSCI 3540
Forensic Trace Analysis I
3:2:3
Fall
* Prerequisite(s): FSCI 3400 with a C+ or higher and University Advanced Standing

Introduces the composition and varieties of glass, and discusses the forensic value of glass fractures and fragments associated with crimes. Teaches the physical and light transmission properties of glass. Insturcts on the analytical identification of glass using instruments and microscopes to measure density, refraction, color and melting point. Introduces the chemical composition of paint. Teaches how to determine color, binder and elemental composition, and make forensic comparisons on microscopic sized samples. Explains the examination of fire debris, explosives and explosive residues. Teaches the physical characterization and chemical analysis of fire debris and explosive residues. Lab access fee of $30 for computers applies. Course fee of $135 for materials applies.

Course Descriptions
Course Descriptions

FSCI 3550
Forensic Trace Analysis II
3:2:3 Spring
* Prerequisite(s): (FSCI 3400 or CHEM 2310 with a C+ or higher) and University Advanced Standing
Introduces the physical and biological properties of hair including structure, color, and composition. Teaches the difference between human and animal hair. Explains microscopic hair comparison and the avoidance of false-positive results. Introduces the occurrence of fiber evidence. Teaches methods of fiber recovery and sample preparation. Explains the use of instruments and microscopes to determine chemical composition, color, strength, and shape. Teaches methods of fiber comparison, identification, and classification. Discusses the significance of fiber evidence. Lab access fee of $30 for computers applies.

FSCI 3700
Fingerprint Examination I
3:3:0 Fall, Spring
* Prerequisite(s): (CJ 1350 or FSCI 3400 each with a C+ or higher) and University Advanced Standing
Teaches professional conduct in fingerprint examination. Explains the differences in latent fingerprints as they relate to the physical condition in which they are found. Describes the equipment needed for fingerprint development, lifting and comparison. Presents different classification schemes. Teaches basic fingerprint comparisons, writing examination notes, and applies verification protocols to ensure accuracy. Prepares for courtroom testimony covering: written reports, dress and appearance, demeanor, testimony, presentation, mock trials. Prepares for cross-examination. Deals with judges, opposing counsel, juries and reporters. Lab access fee of $30 for computers applies. Course fee of $143 for materials applies.

FSCI 3720
Fingerprint Examination II
3:3:0 Fall, Spring
* Prerequisite(s): (CJ 1350 or FSCI 3400 each with a C+ or higher) and University Advanced Standing

FSCI 3740
Fingerprint Examination III
3:3:0 On Sufficient Demand
* Prerequisite(s): Instructor Approval and University Advanced Standing

FSCI 3780
Bloodstain Pattern Analysis
3:3:0 Spring
* Prerequisite(s): (CJ 1350 or FSCI 3400 with a C+ or higher) and University Advanced Standing
Teaches methods for protection against blood-borne pathogens. Reviews weights, measures, trigonometry, and stroboscopic photo techniques. Presents bloodstain analysis from functional and historical perspectives. Teaches specialized bloodstain terminology and the techniques of bloodstain documentation. Presents the physical properties of blood as they apply to forensic investigation. Uses characteristic patterns and computer applications to interpret the impact patterns of spattered blood. Determine the motion, directionality, point of convergence, and the point of origin of bloodstains. Teaches traditional and modern techniques in crime scene reconstruction for documenting and reconstructed the crime scene. Presents guidelines for presenting bloodstain evidence at trial. Course lab fee of $75 for materials applies.

FSCI 3800
Computer Forensics and Cyber Crime
3:3:0 Fall
* Prerequisite(s): (CJ 1350 or FSCI 3400 with a C+ or higher or Instructor Approval) and University Advanced Standing

FSCI 3820
Crime Scene Investigation Techniques I
3:3:0 Fall, Spring
* Prerequisite(s): (CJ 1350 or FSCI 3400 with a C+ or higher) and University Advanced Standing
Explains the fundamental goals of crime scene investigation. Explains the importance of physical evidence. Teaches fundamental crime scene documentation skills including note taking, sketching, and photography. Teaches evidence collection and packaging. Teaches specific methodology for death scenes, trace evidence, bloodstains, and ballistics. Assembles the evidence to reconstruct the crime scene.

FSCI 382L
Crime Scene Investigation Techniques Laboratory I
1:0:3 Not Offered
* Prerequisite(s): CJ 1340 and University Advanced Standing
* Corequisite(s): FSCI 3820
Teaches fundamental crime scene documentation skills including note taking, sketching, photography. Teaches evidence collection and packaging allowing correct tracking and protection against contamination. Teaches packaging of dangerous and infectious materials. Teaches by a cycle of critique, review, and repeat for at least two cycles to make documentation skills automatic, thus allowing the investigator to concentrate on the evidence and not on the process. Uses an alternative light source to find evidence at the crime scene. Provides experience in fingerprint development, photography and lifting. Provides experience in making three dimensional casts and two dimensional impressions of physical evidence. Course Lab fee of $165 for materials applies.

FSCI 3850
Marijuana Identification Certificate
3:2:2 On Sufficient Demand
* Prerequisite(s): (CJ 1350 or FSCI 3400 with a C+ or higher or Instructor Approval) and University Advanced Standing
Teaches the botanical and chemical methodology required for the legal identification of marijuana. Identifies the microscopic morphological features of the plant material. Uses thin layer chromatography to detect hallucinogenic chemicals. Uses the Duquenois-Levine Test to detect the cannabinoid family of chemicals. Teaches the methodology to detect marijuana residues in charred debris. Identifies false-positive results. Interprets data, writes a marijuana analysis report and presents results in a Moot Court. Course fee of $155 for materials applies.
FSCI 3860
Forensic Microscopy
3:2:3 Fall
* Prerequisite(s): (CJ 1330 or FSCI 3400 with a C+ or higher) and University Advanced Standing

Lays the foundation of forensic microscopy. Explains the theory of the microscope: light and lenses. Describes the major variants of the compound microscope including the stereo, polarized light and comparison varieties. Explains the function and purpose of the illuminator, substage condenser, objective, and ocular. Establishes acceptable performance criteria of image quality as it relates to compromises among resolution, magnification, and visibility. Presents the use of specialized contrast enhancement and illumination techniques. Explains the theory and use of the polarized light microscope in the examination of anisotropic, birefringent, and optical properties of crystalline materials. Describes the use of the microscope as a quantitative measuring tool. Introduces color analysis using a microscope attached to a spectrophotometer. Teaches instrument calibration methods and the principles of forensic microscopic spectrophotometric examination. Describes the collection and examination of microtissues and the use of microtissue catalogs. Lab access fee of $30 for computers applies. Course fee of $152 for materials applies.

FSCI 3880
Expert Witness Professional Practices
3:3:0 Spring
* Prerequisite(s): (CJ 1330 and CJ 2350 each with a C+ or higher) and University Advanced Standing

Stresses the importance of background checks, polygraph tests and personal integrity. Teaches Professional Competence: training, degrees and certificates, publications, affiliations, testimony track record, continuing education. Describes the duties and the special privileges of opinion testimony afforded to expert witnesses. Explains the Rules of Evidence and statistical reliability as they pertain to scientific data and findings. Presents guidelines for case review and report writing. Discusses trial strategy, testimony, presentations, and dangers that confront the expert witness at court. Discusses cross-examination strategies. Teaches professional business practices including personal organization, contracts for hiring the expert for professional services, consultation, correspondence, record keeping, fee setting, and fee collection.

FSCI 4400
Forensic Chemistry
3:3:0 Spring
* Prerequisite(s): (CHEM 2320 or FSCI 3400 with a C+ or higher), instructor approval, and University Advanced Standing
* Corequisite(s): FSCI 440L

Teaches safety precautions. Teaches the importance and procedures of evidence security, package seals to avoid contamination and loss. Instructs in case documentation and analytical notes in the laboratory. Teaches chemical analysis techniques including: net weight determination, sample preparation, presumptive testing, structural conformation and quantization. Teaches guidelines for data analysis, interpreting results, and writing analytical reports. Provides guidelines for case review and quality assurance. Teaches botanical identification and marijuana analysis. Presents methods for fiber and polymer analysis, paint sample preparation, and microscopic color analysis. Intends to replace the initial on-the-job training and professional seminars required of beginning forensic chemists after being hired in a crime laboratory.

FSCI 440L
Forensic Chemistry Laboratory
1:0:3 Spring
* Prerequisite(s): University Advanced Standing
* Corequisite(s): FSCI 4400

Stresses laboratory safety. Teaches evidence security, and the avoidance of contamination and loss. Instructs in case documentation and analytical notes in the laboratory. Teaches chemical analysis techniques including: net weight determination, sample preparation, presumptive testing, structural conformation and quantization. Teaches guidelines for data analysis, interpreting results, and writing analytical reports. Provides guidelines for case review and quality assurance. Teaches botanical identification and marijuana analysis. Presents methods for fiber and polymer analysis, paint sample preparation, and microscopic color analysis. Intends to replace the initial on-the-job training and professional seminars required of beginning forensic chemists after being hired in a crime laboratory.

FSCI 443R
Directed Research in Forensic Science
2 to 7:1:3 to 15 On Sufficient Demand
* Prerequisite(s): Instructor Approval and University Advanced Standing

Provides undergraduate research. Guidance by a faculty member directs literature data, experimental design, data acquisition, interpretation of results, and conclusion. Written report, suitable in form for publication, necessary for completion. May be repeated for a maximum of 7 credits toward graduation. Lab access fee of $30 for computers applies. Course fee of $310 for materials applies.

FSCI 481R
Forensic Science Internship
1 to 8:0:5 to 40 Fall, Spring, Summer
* Prerequisite(s): Department application approval and University Advanced Standing

Provides actual, on-the-job work experience on a paying or non-paying (volunteer) basis in a Forensic Science profession or other approved related situation. Emphasizes successful work experience, with emphasis on identifying and solving problems. May be repeated for a maximum of 8 credits toward graduation. May be graded Credit/No Credit.

Fire Science Firefighter (FSF)

FSF 1000
Survey of Fire and Rescue Emergency Services
3:3:0 Fall, Spring, Summer

Explores career opportunities and job requirements of fire and rescue emergency services. Discusses the various duties within emergency services, including structural fire fighting, wildland fire fighting, technical rescue, hazardous materials control, fire protection, fire investigations, and incident command. Explains the employment testing and selection processes of federal, state, municipal, and industrial emergency service organizations. Develops basic emergency skills in hazard recognition, response organization, and fire extinguisher use.

Geography (GEOG)

GEOG 1000
Introduction to Physical Geography PP
3:3:0 Fall, Spring

Explores the world through each of the major components of physical geography: climatology, hydrology, geomorphology, and biogeography, focusing on how they are interrelated. Emphasizes the dynamic interactions among climate, vegetation, soils, and landforms. Can be taken in conjunction with laboratory exercises in GEOG 1005.

GEOG 1005
Introduction to Physical Geography Lab 1:0:2 Fall, Spring
* Prerequisite(s) or Corequisite(s): GEOG 1000

Designed to be taken in conjunction with GEOG 1000. Explores the world from a broad perspective, examining each of the major components of physical geography: climatology, hydrology, geomorphology, and biogeography. Investigates physical processes of and interactions among climate, vegetation, soils, and landforms.

GEOG 1300
Survey of World Geography SS
3:3:0 Fall, Spring, Summer

For students who wish to have a better understanding of the world in which we live. Studies major countries of the world with special emphasis on location, physical environment, culture, resources, and current events.

GEOG 1400
Introduction to Human Geography SS
3:3:0 Fall, Spring

Examines the theoretical aspects of human activity across the Earth’s surface. Discusses the analytical frameworks for understanding the interactions of social, cultural, economic and political systems. Topics include population dynamics, international development, human conflicts, and urbanization.
Course Descriptions

GEOG 1600
Geography of Utah
3:3:0 Fall
Applies principles and methods of physical, cultural, and human-environment geography to the study of Utah's people, places, and environments; considers problems of adjustment, including natural hazards, environmental concerns, and human problems. Designed for Secondary Education students seeking Geography or Social Science Composite certifications.

GEOG 2100
SS Geography of the United States
3:3:0 Spring
Surveys primarily the regional geography of the United States and, secondarily, of Canada. Explores subregions of each country in detail. Includes topics such as culture, environment, economy, urbanization, transportation systems, territory and political borders.

GEOG 2200
Geography of Europe
3:3:0 On Sufficient Demand
Provides a regional survey of Europe including topics such as economic development, environment, politics, society and culture. Explores the place of Europe in geopolitical and global economic systems. Discusses internal relationships within the European Union, Eastern Europe and Russia.

GEOG 2500
Geography of Latin America and the Caribbean
3:3:0 On Sufficient Demand
Surveys the Americas south of the United States. Explores each subregion of Latin America and the Caribbean in detail. Includes topics such as development, environment, indigenous peoples, history, and national political and financial crises.

GEOG 3010
Economic Geography
3:3:0 On Sufficient Demand
* Prerequisite(s): University Advanced Standing
A course encompassing the study of humankind's economic activities on the earth, including hunting, gathering, agriculture, mining, manufacturing, forestry, fishing, high technology, and world trade. Studies population, environmental issues, urban patterns, and travel and tourism. Uses lectures, oral response, field trips, and audiovisual aids.

GEOG 3100
Cartography
3:2:3 On Sufficient Demand
* Prerequisite(s): (MATH 1030 or MATH 1040 or MATH 1050) and (GEO 1010 or GEOG 1000 or GEOG 1300 or equivalent); and University Advanced Standing
Introduces fundamental principles of cartography including perception, visualization, topographic and thematic map interpretation, field mapping techniques (including GPS), and creating computer-based maps. Includes concepts of direction, scale, grids, projections, spatial transformations, spatial data analysis, data manipulation decisions, color theory and application, and principles of cartographic design and critical evaluation.

GEOG 3110
Urban Geography
3:3:0 Fall
* Prerequisite(s): University Advanced Standing; GEOG 1300 preferred
Focuses on the origins, growth, structure and function of cities. Examines social and political dimensions of urban life and the emergence of new urban spaces around the world. Includes case studies in the decline of urban industrial America and the rise of Sunbelt and Edge Cities.

GEOG 3150
Social Geography
3:3:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020 or instructor approval) and University Advanced Standing
Takes a spatial approach to understanding society, premised upon the notion that geographic space and social relationships are inescapably linked. Examines networks and relationships between individuals and groups at a number of scales, from interpersonal to global. Explores topics such as discrimination, segregation, poverty and homelessness.

GEOG 3250
Cultural Geography
3:3:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020 or instructor approval) and University Advanced Standing
Explores the cultural landscape of the world's peoples. Describes the geographic complex of cultural forms including language, religion, music, art, architecture, folklore, food, clothing and land use. Topics include cultural conflicts, globalization, and the international entertainment industry.

GEOG 3400
Environmental Remote Sensing
3:2:3 On Sufficient Demand
* Prerequisite(s): MATH 1050 and MATH 2040 and (PHYS 2010 or PHYS 2210) and (GEOG 3600 or GIS 3600); and an upper division course in natural science recommended; and University Advanced Standing
Introduces the history, theory, and operation of remote sensing software. Includes an introduction to the electromagnetic spectrum and signals, sensors, image processing, and classification techniques. Provides a survey of the concepts and techniques of remote sensing and image analysis for mapping and monitoring natural resources, environment and land use, and an array of geoscientific applications at different scales.

GEOG 3430
Political Geography
3:3:0 On Sufficient Demand
* Prerequisite(s): University Advanced Standing
Surveys the geographic dimensions of political action and theory at local, national and global scales. Covers topics such as geopolitics, nationalism, territoriality, and political conflicts. Examines subjects such as American electoral patterns, Cold War geographies, and 21st century global security.

GEOG 3500 (Cross-listed with: GEO 3500)
Geomorphology
4:3:3 Spring
* Prerequisite(s): MATH 1050 or equivalent, University Advanced Standing, and one of the following lecture and lab pairs: (GEO 1010 and GEO 1015) or (GEOG 1000 and GEOG 1005)
Examines the geologic processes operating at the Earth's surface to understand the origin of our planet's varied landscapes. Explores how landforms respond to climate change, tectonic forcing, and changes in land use. Addresses common geomorphic processes including weathering, soils, hill slope processes, fluvial processes and landforms, aeolian transport, glacial and periglacial environments, karst, and coastal processes.

GEOG 3600 (Cross-listed with: GIS 3600)
Introduction to Geographic Information Systems
4:3:3 Fall, Spring
* Prerequisite(s): [(GEO 1010 and GEO 1015) or (GEOG 1000 and GEOG 1005)] or (BIOL 1010 and BIOL 1015) or ENVT 1110 or EGDT 1400 or Instructor Approval] and University Advanced Standing
Introduces the history, theory, and operation of Geographic Information Systems (GIS). Includes an introduction to GIS data sources, database design, data input, spatial analysis, and map production. Offers valuable preparation for careers in geology, geography, geographic information systems, geomatics, planning, surveying, marketing, environmental technology, biology, engineering, and other related fields. Lab access fee of $30 for computers applies.

GEOG 3650
Advanced Geographic Information Systems
4:3:3 Spring
* Prerequisite(s): GEOG 3600 and University Advanced Standing
Expands on GEOG 3600, Introduction to Geographic Information Systems (GIS), and reviews advanced GIS functions and applications to the sciences. Fundamental topics include spatial analysis, geostatistical analysis, 3-D modeling, and project development and implementation.

GEOG 3700
Wetland Studies
3:3:0 Fall
* Prerequisite(s): GEOG 1000 OR GEO 1010 OR ENVT 1110 OR BIOL 1010 OR CHEM 1110 OR Instructor Approval; and University Advanced Standing
Examines the structure and function of wetlands with emphasis on wetland biogeochemistry processes, soils, hydrology, flora and fauna, mitigation and restoration, policies and regulations. Explores research methods applied in wetland studies. Provides students with essential skills to critically evaluate wetland issues to make informed decisions. Prepares students to conduct research and communicate scientific information.
GEOG 3705
Wetland Studies Laboratory
1:0:3 Fall
* Prerequisite(s): GEO 1010 OR ENVT 1110 OR BIOL 1010 OR CHEM 1210 OR Instructor Approval; and University Advanced Standing

* Corequisite(s): GEOG 3700

Designed to be taken in conjunction with GEOG 3700. Applies techniques for sampling and mapping of wetland soils, plants, water, etc. and analyzes chemistry of wetland samples using modern instrumentation to address outstanding scientific questions related to wetlands. Addresses skills to interpret and present scientific data. Normally includes field trips.

GEOG 3800 (Cross-listed with: HIST 3800)
Environmental History of the United States
3:3:0 On Sufficient Demand
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Examines human modification of the American landscape. Surveys the physical geography of the United States, landscape change during Native American to European transition, and causes of agricultural and industrial pollution. Topics include land ethics, processes of environmental degradation, technological remedies, history of federal laws and protection agencies. May include field experiences.

GEOG 4100
Geospatial Field Methods
3:2:3 Fall
* Prerequisite(s): (GEOG 3600 or GIS 3600) and MATH 1060; University Advanced Standing

Provides an introduction to measuring, recording, and finding geographic locations in the field using GPS and other methods widely used in industry and research. Applies GPS and other field techniques to scientific problems, and emphasizes hands-on experience with field equipment. Covers geographic reference frames, and integrates field data with desktop GIS software.

Geology (GEO)

GEO 1010
Introduction to Geology
3:3:0 Fall, Spring, Summer

Studies planet earth: its materials, structure, dynamics, and surface features. Taken alone it is designed for non-science students who want a broad introduction to earth science and a greater appreciation of their physical surroundings. Taken in conjunction with laboratory exercises in GEO 1015, the class is sufficiently rigorous to articulate as an introductory earth science class.

GEO 1015
Introduction to Geology Laboratory
1:0:2 Fall, Spring, Summer

Designed to be taken in conjunction with GEO 1010. Includes the identification of rocks, minerals, basic land forms and structures. Studies geologic processes occurring in desert, glacial, mountainous and other environments. Taken with GEO 1010, the class will articulate as an introductory earth science class. Course Lab fee of $11 for transportation, lab applies.

GEO 101H
Introduction to Geology
3:3:0 Fall, Spring

Studies the structural and dynamic systems of the earth that create our environment. Stresses geology and related topics chosen for astronomy and meteorology. Course Lab fee of $10 for transportation, lab applies.

GEO 1020 (Cross-listed with: BIOL 1200)
Prehistoric Life
3:3:0 Spring
* Prerequisite(s): BIOL 1010 or GEO 1010 recommended

Studies prehistoric life. Uses the concepts of biology and physical science. Studies major groups of ancient animals and plants as found in the rock record. Includes aspects and fundamental concepts of biology, ecology, and geology.

GEO 102H
Introduction to Geology Laboratory
1:0:2 Fall, Spring

Includes identification of basic land forms and structures. Studies the geologic processes occurring in desert, glacial, mountains, and other environments. Includes an extended outdoor activity to the Grand Canyon or Capital Reef National Park. Course Lab fee of $10 for transportation, lab applies.

GEO 1080
Introduction to Oceanography
3:3:0 Fall, Spring

Introduces the origin and development of the oceans, marine geology and its effect on life in the seas. Discusses waves, tides, currents, and their impact on shorelines, the ocean floor, and basins. Examines physical processes as they relate to oceanographic concepts. Includes media as an alternative to the actual oceanic experience. Completers should have a basic knowledge and appreciation of the ocean’s impact to the world’s ecology. May be delivered online.

GEO 1085
Introduction to Oceanography Laboratory
1:0:2 Spring

A basic laboratory experience in the physical aspects of Oceanography. Introduces applied skills in Oceanography such as Marine Geology and Oceanographic Chemistry. Studies the physical parameters that allow marine life to flourish. Uses maps to study the structure of the sea floor and its relationship to plate tectonics. Provides hands-on experiences with salinity and marine chemistry.

GEO 1220
Historical Geology
3:3:0 Fall, Spring

Examines the origin and development of the Earth. Studies the succession of animals and plants from trilobites through dinosaurs and eventually to man himself, following the changing earth environment in the process. Designed for non-science students who desire an understanding of the history of the Earth. Taken in conjunction with laboratory exercises in GEO 1225, the class is sufficiently rigorous to articulate as an introductory earth science class.

GEO 1225
Historical Geology Laboratory
1:0:2 Fall, Spring

Designed to be taken in conjunction with GEO 1220. Identifies fossils in correlation with their paleoenvironments and geologic time periods. Illustrates and duplicates methodology of the science of historical geology. Taken with GEO 1220, the class will articulate as an introductory earth science class. Course Lab fee of $10 applies.

GEO 202R (Cross-listed with: BIOL 202R)
Science Excursion
1:0:2 Fall, Spring

For students interested in the natural world. Explores a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of a minimum of a four-day field trip. Participants should gain an increased understanding of several fields of scientific study. Graded as credit/no credit. May be repeated as many times as desired for interest, however a maximum of 3 credits may count toward graduation.

GEO 204R (Cross-listed with: BIOL 204R)
Natural History Excursion
3:1:4 On Sufficient Demand

For students interested in the natural world. Promotes an in-depth look at a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of 15 hours of lecture plus an appropriate field trip. Participants should gain an interdisciplinary understanding of science and nature.

GEO 2070
Natural History of the Colorado Plateau
3:1:4 On Sufficient Demand
* Corequisite(s): BIOL 2070

Addresses the geological component of the Natural History Course taught in conjunction with BIOL 2070 at the Capitol Reef Field Station during the summer months. Teaches students about the rocks and strata of the area, the processes that mold the landscape, and the relationships between the physical and biological aspects of the ecosystem, including humans. Provides an intense, hands-on field course where faculty and students participate together in a natural setting. Requires students to live and learn at the field station for most of the course.

GEO 3000
Geochemistry
3:3:0 Spring
* Prerequisite(s): GEO 1010, MATH 1050, CHEM 1220; University Advanced Standing

Introduces both high and low temperature geochemistry with a focus on the use of quantitative methods to understand geological processes. Topics include crystal chemistry, thermodynamics and kinetics of chemical reactions, aqueous solutions, sorption and complexation, oxidation-reduction reactions, organic geochemistry, and the chemistry of the Earth system. Numerous examples will be introduced to demonstrate how the conceptual framework can be applied in solving practical problems.
Course Descriptions

GEO 3080 Earth Materials 3:3:0 Fall
* Prerequisite(s): GEO 1010, GEO 1015, and University Advanced Standing; CHEM 1210 or other chemistry course recommended
* Corequisite(s): GEO 3085

Investigates the physical characteristics, chemical properties, formation, and distribution of geologically significant igneous and metamorphic rocks and minerals. Develops ability to examine rocks and minerals, and analyze their chemical properties to understand geologic processes. Involves field trips, including the possibility of weekend trips. Course lab fee of $22 for transportation, lab applies.

GEO 3085 Earth Materials Laboratory 1:0:3 Fall
* Prerequisite(s): GEO 1010, GEO 1015, and University Advanced Standing; CHEM 1210 or other chemistry course recommended
* Corequisite(s): GEO 3080

Focuses on identification and classification of common rocks and minerals in hand sample and introduces optical mineralogy and petrography. Investigates the occurrence and formation of common rocks and minerals through direct observation of their properties and occurrence. Involves field trips, including the possibility of weekend trips.

GEO 3100 Isotope Geochemistry 3:3:0 Fall
* Prerequisite(s): GEO 1010, CHEM 1220, or Instructor Approval and University Advanced Standing

Provides an introduction to the principles and applications of isotope geochemistry, which plays an important role in a wide variety of geological, biological, and environmental investigations, and summarizes the analytical techniques used in the field. Examines the theory of radiometric dating and provides an overview of the most commonly used geochronometers. Focuses on stable isotopes with emphasis on oxygen, hydrogen, carbon, nitrogen, and sulfur and with applications in paleoclimatology, ecology and paleoecology, archeology, and hydrology.

GEO 3105 Isotope Geochemistry Laboratory 1:0:2 Fall
* Prerequisite(s): GEO 1010, MATH 1050, CHEM 1220 and University Advanced Standing
* Prerequisite(s) or Corequisite(s): GEO 3100

Explores the analysis and interpretation of real isotope data and provides hands-on experience in their use to solve problems and answer questions in geochronology, paleoclimatology, hydrology, and archaeology. Requires data analysis utilizing Microsoft Excel.

GEO 3200 Geologic Hazards 4:3:3 Fall
* Prerequisite(s): GEO 1010, GEO 1015, and University Advanced Standing

Investigates the ways in which geologic hazards (including earthquakes, landslides, and volcanoes) impact civilization. Studies the causes of these hazards, how to assess whether each of these hazards is a concern at a particular site, and how each type of hazard can be planned for. Includes field-based exercises. Course Lab fee of $16 for transportation, lab applies.

GEO 3400 Forensic Geology 4:3:3 Not Offered
* Prerequisite(s): (CHEM 1210 and CHEM 1215 or higher) and University Advanced Standing
* Corequisite(s): CHEM 1220 and CHEM 1225 recommended

Provides a survey of the uses of geology in solving crime. Emphasizes actual criminal cases, hands-on laboratory activities, and critical observation skills. Covers mineral-forming processes in rock, soil, and sediment, and teaches minerals identification with a hand lens and microscope. Examines some or all of the following: mineral pigments related to art forgery and cosmetics; imitation amber and other gems; environmental pollution; and crimes in archeology. Serves as an introduction to trace analysis.

GEO 3500 (Cross-listed with: GEOG 3500) Geomorphology 4:3:3 Spring
* Prerequisite(s): MATH 1050 or equivalent, University Advanced Standing, and one of the following lecture and lab pairs: (GEO 1010 and GEO 1015) or (GEOG 1000 and GEOG 1005)

Examines the geologic processes operating at the Earth's surface to understand the origin of our planet's varied landscapes. Explores how landforms respond to climate change, tectonic forcing, and changes in land use. Addresses common geomorphic processes including weathering, soils, hill slope processes, fluvial processes and landforms, aeolian transport, glacial and periglacial environments, karst, and coastal processes.

GEO 3700 Structure and Tectonics 4:3:3 Spring
* Prerequisite(s): GEO 1220, GEO 3080, (PHYS 2010 or PHYS 2210), and University Advanced Standing

Investigates the fundamentals of global plate tectonics and rock deformation. Includes applications to petroleum geology, environmental geology, and engineering geology. Explores geometric techniques of structural analysis in the laboratory. Involves field trips, possibly including weekend trips. Course lab fee of $21 for transportation, lab applies.

GEO 4080 Petrology 4:3:3 Spring
* Prerequisite(s): GEO 3080, CHEM 1220, and University Advanced Standing

Intended for students pursuing graduate school in geology or a career in geology such as mining or petroleum geology. Examines mineral equilibrium in igneous, sedimentary, and metamorphic rocks as it pertains to the genesis of these rocks. Introduces students to techniques of petrographic microscopy. Surveys the use of analytical tools in researching igneous and metamorphic rocks, including the use of isotopes for dating and for tracing the origin of magma and the use of the electron microscope for determining temperatures of metamorphism. Examines the diagenesis of sandstones.

GEO 4200 (Cross-listed with: BIOL 4200, CHEM 4200, PHYS 4200) Teaching Methods in Science 3:3:0 Spring
* Prerequisite(s): Acceptance into Secondary Education program, senior-level standing, instructor approval, and University Advanced Standing

Examines objectives, instructional methods, and curriculum for teaching science in the secondary school. Includes developing, adapting, evaluating, and using strategies and materials for teaching biological and physical sciences. Explores special needs of the learners and characteristics specific to the science discipline.

GEO 4500 Sedimentary Geology 4:3:3 Spring
* Prerequisite(s): GEO 3080, GEO 1220, GEO 1225, and University Advanced Standing; CHEM 1210 or other chemistry recommended

Examines a great variety of topics encompassed within the broad field of sedimentary geology. Teaches knowledge of the origin and classification of the major groups of sedimentary rocks, as well as their spatial and temporal distribution as represented in the rock record. Describes the most fundamental stratigraphic principles. Course lab fee of $21 for transportation, lab applies.

GEO 4510 Paleontology 4:3:2 Fall
* Prerequisite(s): GEO 1220, GEO 1225, GEO 3080, (BIOL 1010 or BIOL 1610), and University Advanced Standing: GEO 4500 recommended

Explores students to a wide variety of topics encompassed within the field of paleontology. Offers substantial knowledge of the major groups of life represented in the fossil record. Discusses the most fundamental concepts in paleontology, such as key principles of evolution and paleoecology. Offers an understanding of what paleontologists do, why the field is so crucial, and why all earth scientists should have at least a basic understanding of paleontology. Requires two weekend field trips (dates will be discussed in class). Course lab fee of $21 for transportation, lab applies.

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GEO 4600
Field Experience
4:0:12 Summer
* Prerequisite(s): GEO 3080, GEO 3700, GEO 4500, and University Advanced Standing

An intensive field course giving students hands-on experience with several aspects of earth science field work. Involves 40 hours per day, one to two days per week, for four to six weeks. Course lab fee of $500 for practical experience applies.

GEO 480R
Earth Science Seminar
0.5/0.5:0 Fall, Spring
* Prerequisite(s): GEO 3080 or ENVT 3700 or Instructor Approval and University Advanced Standing

Explores or examines special topics in geology. Topics may vary depending on student demand and current topics of significance in geology. May be repeated for a maximum of 2 credits toward graduation.

GEO 482R (Cross-listed with: ENVT 482R)
Geologic/Environmental Internship
1 to 3:0:5 to 15 Fall, Spring
* Prerequisite(s): GEO 1010 or ENVT 1110, 12 credit hours of any GEO, GEOG, or ENVT courses), declared major in any Earth Science program, and University Advanced Standing

Engages students in supervised geologic or environmental work in a professional setting. Requires approval by the Chair of the Department of Earth Science. Includes maintaining a journal of student experiences and preparing a paper summarizing their experience. A maximum of 3 credit hours may be counted toward graduation. May be graded Credit/No Credit.

GEO 489R
Student Research
1 to 4:0:3 to 12 Fall, Spring
* Prerequisite(s): GEO 1015, Junior or Senior standing, instructor approval, and University Advanced Standing

Provides students the opportunity to conduct research under the mentorship of an Earth Science department faculty member. Includes any combination of literature reviews, original research, and/or participation in ongoing departmental projects. Involves students in the methodology of original geologic research. Requires preparation and presentation of oral and/or written reports, typically presented in a public forum. May be repeated for a maximum of 6 credits toward graduation.

GEO 490R
Special Topics in Geology
1 to 4:1 to 4:0 to 9 On Sufficient Demand
* Prerequisite(s): GEO 1010, GEO 1015, Junior or Senior standing, instructor approval, and University Advanced Standing

Explores or examines special topics in geology. Topics vary depending on student demand and current topics of significance in geology. May be repeated for a maximum of 8 credits toward graduation.

GEO 495R
Independent Study
1 to 4:0:3 to 12 Fall, Spring
* Prerequisite(s): GEO 1010, GEO 1015, and University Advanced Standing

Requires an independent study program to be developed with one or more Earth Science faculty member and approved by a committee of Earth Science faculty. Includes some combination of literature review, field work, numerical analysis, and/or laboratory analysis. Involves the preparation of a written report. An oral presentation may also be required. May be repeated for up to 4 credits.

GEO 525R
Advanced Topics for Geology Teachers
1 to 5:1 to 5:0 to 10 On Sufficient Demand
* Prerequisite(s): Departmental Approval

For licensed teachers or teachers seeking to recertify their earth science or integrated science endorsements from the Utah State Office of Education. Teaches principles of geology and pedagogy of teaching geology for teachers in public or private schools. Emphasis will be placed on correlation with the Utah Core Curriculum, the National Science Education Standards, and the Benchmarks of Project 2061. Topics will vary.

German (GER)

GER 1010 LH
Beginning German I
4:4:1 Fall, Spring

Studies conversational German that is used in daily settings. Includes culture study and conversation in real life situations. Covers pronunciation, reading, and grammar. Uses the Natural and Total Physical Response teaching methods. Includes field trips and guest lecturers. Lab access fee of $10 applies.

GER 1020 LH
Beginning German II
4:4:1 Fall, Spring
* Prerequisite(s): Student should have equivalent knowledge of GER 1010

Studies second semester conversational German that is used in daily settings. Includes culture study, pronunciation, reading, and grammar. Emphasizes conversation in real life situations. Uses a variety of communicative teaching methods. Includes field trips and guest lecturers. Completers should be able to converse enough to visit or work in a German speaking country. Lab access fee of $10 applies.

GER 1050 HH
Intermediate German I
4:4:1 Fall, Spring
* Prerequisite(s): Students should have equivalent knowledge of GER 1020

Studies fourth-semester conversational German that is used in daily settings. Includes culture study, pronunciation, reading, and grammar. Emphasizes conversation in real life situations. Uses field trips and guest lecturers. Prepares students to enter the advanced level of German. Completers should be able to converse enough to visit or work in a German speaking country. Lab access fee of $10 applies.

GER 1110 LH
German Conversation I
4:4:0 On Sufficient Demand

A total immersion course taught in a classroom in a German speaking country. Students live in native, German-speaking homes or other total immersion environments. Prazdks creative language in conversation to develop proficiency in the German language at the novice level. Includes intensive listening and speaking experience to improve aural-oral proficiency. Students will attend cultural and sporting events. Offered only with the Summer Study Abroad program. May be taken concurrently with GER 2700.
Course Descriptions

GER 215R  
German Conversation II  
1:1:0  
* Prerequisite(s): Students should have equivalent knowledge of GER 1020

Offers lower division / novice German speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

GER 2700  
Immersion German Civilization and Culture  
4:4:0  
A total immersion course of classroom study and experience in a German speaking country. Students will live in native, German-speaking homes or other total immersion environments. Includes classroom study, supervised travel of cultural interest, and attendance at various cultural and sporting events. Includes written response, journals, and examinations. Offered only with the Summer Study Abroad program. May be taken concurrently with GER 1110.

GER 3030  
German Composition and Conversation  
3:3:0  
* Prerequisite(s): (GER 202G or equivalent experience) and University Advanced Standing

Expands knowledge and skill base developed in lower-division courses with an emphasis in idiomatic expression in spoken and written German. Using authentic texts, students will learn to read, speak, and write with more precision and accuracy. Successful completion of this course will prepare students to participate fully in subsequent advanced courses.

GER 3050  
Advanced German  
3:3:0  
* Prerequisite(s): GER 202G, one-year residency in German speaking country, or placement test

Designed for non-native German speakers who have lived in a German speaking country for at least one year and who would like credit for GER 1010, 1020, 2010, and 202G. The course includes a review of grammar and an introduction to German literature, art, music, and expository writing. Lab access fee of $10 applies.

GER 3200  
Business German  
3:3:0  
* Prerequisite(s): (GER 3050 or equivalent knowledge) and University Advanced Standing

For those who plan to pursue careers in international business or related fields, learn the business language for German, understand the German corporate culture, or plan to major or minor in German. Teaches German business terminology and prepares students to take the International German Business Certificate examination. Presents Germany's role in a global economy. Explores how students can effectively do business with German companies within the framework of German culture. Includes current materials dealing with today's issues. Will be taught entirely in the German language. Lab access fee of $10 applies.

GER 351G  
German Culture and Civilization  
3:3:0  
* Prerequisite(s): GER 3050 and University Advanced Standing

Explores chronologically the cultural formation and development of German-speaking societies and cultures in Germany, Austria, Switzerland, and other German-speaking regions. Discusses the ethnic development and linguistic history of these societies and countries. Presentations and class instruction conducted entirely in German.

GER 380R  
Topics in German Studies  
3:3:0  
* Prerequisite(s): University Advanced Standing

Explores a variety of subjects relevant to the study of German language, literature, history and culture. Engages students in critical analysis and discourse. Possible topics may include Medieval German literature, Weimar film, History of the German Language, current events in Germany, or the Holocaust. May be repeated for a maximum of 6 credits toward graduation.

GER 4200  
Advanced Business German  
3:3:0  
* Prerequisite(s): (GER 3200 or equivalent knowledge) and University Advanced Standing

For those planning to pursue the Bachelor of Science for careers in geology, geography, geographic information systems, geomatics, planning, surveying, marketing, environmental technology, biology, engineering, and other related fields. Software fee of $18 applies. Lab access fee of $35 for computers applies.

GIS 2640  
Geographic Information Systems and Surveying  
2:2:0  
* Prerequisite(s): EGDT 2400, GEOG 3600

Presents geospatial data and modeling principles and techniques using raster and vector geoprocessing. Teaches Geovisualization and Geospatial information sources, digital terrain modeling, spatial data analysis, and mapping project implementation. Covers concepts of real property related to land registration and information systems and the value of maps for governance, commerce, and research of social and environmental systems regionally, nationally, and globally. Lab access fee of $35 for computers applies.

GIS 3600 (Cross-listed with: GEOG 3600)  
Introduction to Geographic Information Systems  
4:3:3  
* Prerequisite(s): [GEQ 1010 and GEO 1015] or (GEOG 1000 and GEOG 1005) or (BIOL 1010 and BIOL 1015) or ENVT 1110 or EGDT 1400 or Instructor Approval and University Advanced Standing

Introduces the history, theory, and operation of Geographic Information Systems (GIS). Includes an introduction to GIS data sources, database design, data input, spatial analysis, and map production. Offers valuable preparation for careers in geology, geography, geographic information systems, geomatics, planning, surveying, marketing, environmental technology, biology, engineering, and other related fields. Software fee of $18 applies. Lab access fee of $35 for computers applies.
GIS 3620
Advanced GIS for Geomatics
3:3:0
* Prerequisite(s): (GIS 3600 or GEOG 3600) and University Advanced Standing

Presents Geospatial data and modeling principles and techniques using raster and vector geoprocessing. Teaches Geovisualization and Geospatial information sources, digital terrain modeling, spatial data analysis, and mapping project implementation. Covers concepts of real property related to land registration and information systems and the value of maps for governance, commerce, and research of social and environmental systems regionally, nationally, and globally. Software fee of $18 applies. Lab access fee of $35 for computers applies.

GIS 3640
Thematic Mapping Environmental Impacts
3:3:0 On Sufficient Demand
* Prerequisite(s): GIS 2640 and University Advanced Standing

Analyzes ways to geographically visualize the impact of natural disasters, energy processes, human impacts, and other impacts on the environment. Reviews the regional and global interrelationships of land, water, and atmosphere to the environment. Involves producing a thematic global and regional mapping project(s) considering the environmental impacts or potential impacts as presented in this course. Lab access fee of $35 for computers applies.

GIS 3650
Thematic Mapping Culture and Societies
3:3:0 On Sufficient Demand
* Prerequisite(s): GIS 2640 and University Advanced Standing

Focuses on thematic maps of human activity covering the major cultural regions of the world considering cultural, political, and economic environments. Presents various ways to cartographically depict sociological data such as: population, religion, language, migration, and industries, etc. Involves producing a thematic global and regional mapping project(s) as presented in this course. Lab access fee of $35 for computers applies.

Greek (GRK)

GRK 1010
Beginning Ancient Greek I
4:4:0
Fall
* Prerequisite(s): ENGL 1010

Studies Ancient Greek language at the introductory level, focusing primarily on Attic Greek. Centers on grammar and textbook exercises with some analysis of literary and/or philosophical selections in Ancient Greek. Relates particularly to students interested in studying Ancient Greek culture and thought.

GRK 1020
Beginning Ancient Greek II
4:4:0
Spring
* Prerequisite(s): GRK 1010

Continues study of the Ancient Greek language at the introductory level, focussing primarily on Attic Greek. Centers on grammar and textbook exercises with some analysis of literary and/or philosophical selections in Ancient Greek. Relates particularly to students interested in studying Ancient Greek culture and thought.

GRK 2010
Intermediate Ancient Greek I
4:4:0 On Sufficient Demand
* Prerequisite(s): GRK 1020

Studies the Ancient Greek language at the intermediate level, focusing primarily on Attic Greek. Centers on grammar and textbook exercises with some analysis of literary and/or philosophical selections in Ancient Greek. Relates particularly to students interested in studying Ancient Greek culture and thought.

GRK 2020
Intermediate Ancient Greek II
4:4:0 On Sufficient Demand
* Prerequisite(s): GRK 2010

Studies Ancient Greek language at the intermediate level, focussing primarily on Attic Greek. Centers on grammar and textbook exercises with some analysis of literary and/or philosophical selections in Ancient Greek. Relates particularly to students interested in studying Ancient Greek culture and thought.

HISTORY (HIST)

HIST 1500
World History to 1500
3:3:0 Fall, Spring, Summer

Serves as an introduction to pre-modern world civilization. Surveys cultural, economic, intellectual, and social history up to the year 1500, with special attention to the rise of world religions.

HIST 151G
World History from 1500 to the Present
3:3:0 Fall, Spring, Summer

Serves as an introduction to modern world civilization. Surveys cultural, economic, intellectual and social developments from 1500 to the present. Emphasizes global, comparative, and intercultural issues.

HIST 1700
American Civilization
3:3:0 Fall, Spring, Summer

Stresses movements and developing institutions that are important for an appreciation of American History from the Pre-Columbian period to the present. Discussions include analysis of developing political, economic, and social institutions and their interrelationships with and impact upon the geographical features of the land. Includes book reports, oral response, research papers, media presentations and applications to current events. May be delivered online.

HIST 170H
American Civilization
3:3:0 On Sufficient Demand

Stresses movements and developing institutions that are important for an appreciation of American History from the Pre-Columbian period to the present. Discussions include analysis of developing political, economic, and social institutions and their interrelationships with and impact upon the geographical features of the land. The honors section extends the course’s historical inquiry with additional written and reading requirements which will allow the student a fuller participation in historical debate and the process of

HIST 1740
US Economic History
3:3:0 Fall, Spring

Studies economic development in America, with emphasis on resources, commerce, agriculture, capital, manufacturing, government, and labor organizations.

HIST 180G (Cross-listed with: ANTH 180G)
Introduction to American Indian Studies
3:3:0 Fall, Spring

Provides an overview of modern and historical American Indian communities in the United States. Explores political and historical issues of major tribes and Indian communities by region. Provides students with information and perspectives on key social and cultural issues: spirituality, relations with the Federal government, notable individuals, art, literature, dance, media, health, education and activism.

HIST 204G
Colonial Latin America
3:3:0 Fall

Introduces the history of Latin America from the earliest New World inhabitants through the nineteenth-century Latin American Wars for Independence. Analyzes the social, political, economic, and cultural developments of Latin America. Explores the complex dynamics that shaped pre-Columbian and colonial societies which culminated in early nineteenth-century independence movements.

HIST 205G
Modern Latin America
3:3:0 Spring

Introduces the history of Latin America from 1820 to the present. Focuses on the key issues and themes of the last 190 years including social revolution, dependency and foreign intervention, gender and race. Includes case studies from specific countries.

HIST 2700
US History to 1877
3:3:0 Fall, Spring, Summer

Examines the first half of the American experience, beginning with the Paleo-Indian cultures through Post-Civil War Reconstruction. Surveys social, political, cultural, and diplomatic developments throughout this period.

HIST 270H
US History to 1877
3:3:0 On Sufficient Demand

Examines the first half of the American experience, beginning with the Paleo-Indian cultures through Post-Civil War Reconstruction. Surveys social, political, cultural, and diplomatic developments throughout this period.
Course Descriptions

HIST 2710 AS
US History since 1877
3:3:0 Fall, Spring, Summer
Examines the second half of the American experience, beginning with the collapse of Post-Civil War Reconstruction and concluding with contemporary American issues. Surveys social, political, cultural, and diplomatic developments during this period. The honors section extends the course's historical inquiry with in-depth discussions and additional written and reading requirements, all of which allow the student a fuller participation in historical debates and the process of

HIST 290H
Independent Study
1:1:0 On Sufficient Demand
* Prerequisite(s): Honors Director Approval
Provides independent study for Honors students unable to secure a desired class within regular semester curriculum offering. Involves designing and completing readings and other projects at the lower-division level in cooperation with the Honors director. Maximum of 3 credits may be applied toward Honors graduation.

HIST 290R
Independent Study
1 to 4:1 to 4:0 On Sufficient Demand
* Prerequisite(s): Dean and/or Department Chair approval
Provides independent study for students unable to secure a desired class within regular semester curriculum offering. With approval of dean and/or department chair, student and instructor design and complete readings and other projects at the lower-division level. Maximum of 6 credits may be applied toward graduation.

HIST 3010
The Historian's Craft
3:3:0 Fall, Spring
* Prerequisite(s): HIST 1500, HIST 151G, HIST 2700, and HIST 2710 and University Advanced Standing
Foundational course builds upon information and library literacy skills, primary and secondary sources research, analysis, and writing skills introduced in lower division courses to prepare students for Junior/Senior level coursework. Teaches the craft of History, develop and hone skills in the areas of historical methodology, historiography, and theory, formulate interpretations based on evidence, and present their findings in accordance with professional standards. Prerequisite for all 3000 and 4000 level History courses.

HIST 3020
Introduction to Public History
3:3:0
* Prerequisite(s): HIST 3010 or Instructor Approval; University Advanced Standing
Introduces the discipline of public history, including its methodology and literature. Exposes students to the major fields in public history, and identifies career opportunities. Covers the tools of public history, such as archives, special collections, oral histories, photographs, documents, journals, museum exhibitions, and many types of preservation and conservation techniques. Teaches skills such as analyzing, interpreting, and communicating historical data. In addition, discusses the professional and ethical dimensions of public history.

HIST 3030
Introduction to African History
3:3:0 Fall
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Surveys African history since the sixteenth century: traditional societies, the slave trade, European colonialism, the struggle for independence, underdevelopment, and the challenge of globalization.

HIST 3100
Greek History
3:3:0 Fall
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Explores historical and geographical context of Greece from 1600 B.C.E. to the Roman conquest in 30 B.C.E. spanning Minoan, Mycenaean, Hellenic, and Hellenistic ages. Examines the development of social/cultural, political, and economic institutions emphasizing their influence on Western civilization and our own cultural context.

HIST 3130
Roman Republic
3:3:0 Fall
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Covers the development of Rome and Italy from prehistory through the end of the Republic in first century B.C. Surveys social, cultural, political, economic and military aspects of Republican Rome. Examines the influence of Rome on Western Civilization. Part of a two semester sequence on Roman history. Each semester may be taken independently.

HIST 3140
Roman Empire
3:3:0 Spring
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Covers Roman history from the first century B.C. to the fourth century A.D. Surveys social, cultural, political, economic and military aspects of the Roman Empire. Examines the influence of Imperial Rome on Western Civilization. Part of a two semester sequence on Roman history. Each semester may be taken independently.

HIST 3150
Medieval Europe
3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Introduces the history of Europe from the collapse of Greco-Roman civilization to the fifteenth century. Covers the rise of Western Christendom, the challenge of Islam, the twelfth-century renaissance, the flowering of medieval art, education and literature, feudalism and rural economies, the commercial revolution, human and ecological calamities. Considers the medieval foundations of modern European culture, politics, and society.

HIST 3160
Renaissance and Reformation--Europe 1350 to 1600
3:3:0 Fall
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Explores European history from the rise of modern Humanism, in the fourteenth century, to the religious conflicts of the sixteenth century. Studies the Italian Renaissance, the spread of Italian cultural influence throughout Europe, the European discovery of the Americas and voyages around the globe, the Protestant Reformation and Catholic Counter Reformation, and the social and economic transformations of the early modern period.

HIST 3170
Absolutism Enlightenment and Revolution--Europe from 1600 to 1815
3:3:0 Spring, Summer
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Explores the major political, social and intellectual developments in European history from the Age of Absolutism to the French Revolution.

HIST 3180
Nineteenth Century Europe
3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Analyzes transformations in political, economic, and social ideologies of Europe in the 19th century. Studies primary documents on a variety of ideologies. Includes active class participation and discussion, and much writing in areas agreed upon between instructor and student.

HIST 3190
Twentieth Century Europe
3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Surveys major forces, events and experiences that have shaped Europe and defined its place in the contemporary world. Examines industrialization, nationalism, colonial empires, world wars, Cold War polarization, and European Union.
HIST 320G
Women in American History to 1870
3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Surveys women's experiences in America from the pre-Columbian era to 1870. Emphasizes ways in which race, ethnicity, and class shaped females' experiences.

HIST 320R
Issues and Topics in Global History
3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Surveys specific global issues or topics at the Junior/3000-level. May be repeated for a maximum of 6 credits toward graduation.

HIST 321G
Women in American History since 1870
3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Surveys women's experiences in American culture from 1870 to the present. Emphasizes ways in which race, ethnicity, and class shaped women's experiences.

HIST 322G
History of the American West to 1850
3:3:0 Fall
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Surveys the development of the American West from the pre-Columbian era to 1850 that places the West in both a national and North American context. Includes topics such as pre-contact cultures, Indian-European relations, exploration, colonization, conquest, territorial expansion, resource exploitation, as well as an examination of economic, political, social, and cultural developments that created a distinct regional identity.

HIST 323G
History of the American West since 1850
3:3:0 Spring
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Comparative survey of the development of the American West from 1850 to the present. Emphasizes key issues such as cultural encounters in the West, economic development, urban growth, rural life, the politics of race, ethnicity, class and gender, environmental change, the role of the federal government, and the cultural symbolism of the American West.

HIST 3260
History of Utah
3:3:0 Fall, Spring, Summer
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Surveys the history of Utah and its peoples from prehistoric times to the present, covering cultural, social, economic, political, and religious topics, and places it within regional and national contexts. Can be used for teacher education and recertification requirements.

HIST 327G
Indians of Utah
3:3:0
* Prerequisite(s): Sophomore Standing and University Advanced Standing
Investigates the history of Utah's five principal cultural groups from the pre-Columbian period to the present. Considers how economic processes, cross-cultural influences, and changing Federal and State policies have shaped American Indian communities and individuals in and around Utah. Examines how identity and culture within Native communities have been defined and redefined through the processes of migration (both native and non-native), conquest, assimilation efforts, and cultural persistence.

HIST 3320
Modern Britain
3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Surveys major themes in British history from the Glorious Revolution to the end of the 20th century.

HIST 3440
The History of World War I
3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Explores the numerous factors leading to, sustaining, and concluding World War I, including military developments, diplomacy, and political and economic rivalries. Discusses various battles and campaigns of the conflict, the experience of the average soldier, the crumbling of old governments, and the beginnings of modern genocide.

HIST 345G
The History of World War II
3:3:0 Fall
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Deals with background and cases, course, conduct, and consequences of World War II in Europe and Asia, with special attention to strategy, tactics, diplomacy, and politics.

HIST 3460
US Military History
3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Examines major themes in U.S. Military History from the colonial period to the present. Studies the evolution of weapon systems, strategies, battlefield and naval tactics, military supply, and communication. Includes lecture / discussion, media presentations, guest speakers, research papers and book reviews.

HIST 3520
The United States and Vietnam--1945 to Present
3:3:0 Fall
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Surveys American involvement in Vietnam from the close of World War II to the present. Explores cultural military, diplomatic, historiographical, and social influences of that war on this country. Examines the war's legacy on American politics, culture, and foreign relations. Includes解读, class discussion, audiovisual materials, and guest speakers.

HIST 3530
History of Vietnam
3:3:0
* Prerequisite(s): University Advanced Standing
Provides a comprehensive look at the history of this important Southeast Asian nation. Covers early migrations that formed the Viet people. Includes Chinese domination, independence, French colonialism, the First and Second Indochina wars, and post-1975 developments. Examines cultural, literary, ethnic, military, nationalist, political, and economic issues.

HIST 3540
History of South Africa
3:3:0 Spring
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Explores the history of South Africa from first peoples to the present, with special attention to twentieth-century developments. Topics include Khoisan and Bantu societies, Dutch settlement at the Cape of Good Hope, British colonization, the Zulu kingdom, the Great Trek, British-Boer conflict, the mining economy, Union, segregation and Apartheid, and the struggle for non-racial democracy. For history and integrated studies majors, and other students interested in world history.

HIST 3550 (Cross-listed with: ANTH 3550)
Memory and History
3:3:0
* Prerequisite(s): ANTH 101G and (HIST 3010 or instructor approval) and University Advanced Standing
Studies how societies remember and represent their past and present in various contexts. Examines how societies employ different senses of temporality in these processes. Explores the relationships with historiography and ethnohistory and how anthropologists and historians have dealt with these issues.

HIST 3650
Imperial Russia--Autocracy to Opposition
1696-1917
3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Studies how societies remember and represent their past and present in various contexts. Examines how societies employ different senses of temporality in these processes. Explores the relationships with historiography and ethnohistory and how anthropologists and historians have dealt with these issues.
Course Descriptions

**HIST 366G**  
*The History of Modern Russia--1864 to Present*  
3:3:0 Spring  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
Surveys the history of Imperial Russia, the Soviet Union, and Russia from 1864 to the present, with special attention to Russia's politics, economics, and society.

**HIST 367G** (Cross-listed with: RUS 367G)  
*History of Russian Film*  
3:2:2  
* Prerequisite(s): ENGL 1010 and University Advanced Standing  
Studies Russian cinema within the historical, cultural, thematic, and aesthetic context.

**HIST 371R**  
*Issues and Topics in American History*  
3:3:0  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
Surveys specific American history issues or topics at the Junior/3000-level. May be repeated for a maximum of 6 credits toward graduation.

**HIST 3730**  
*American Origins to 1790*  
3:3:0 Fall  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
Surveys United States History from the Pre-Columbian period to the implementation of the United States Constitution. Examines indigenous cultures prior to European exploration. Analyzes social, political, economic, and cultural developments of European colonization. Explores the Revolutionary Era and its impact on the new independent republic.

**HIST 3731**  
*United States History 1790-1890*  
3:3:0 Spring  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
Surveys United States social, political, economic, and cultural movements from the era of the New Republic to the beginning of the Progressive Reform. Examines such topics as the creation of the Republic, Antebellum Reform, Westward Expansion, the Civil War, Reconstruction, and the Gilded Age.

**HIST 3732**  
*United States History 1890-1945*  
3:3:0  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
Surveys United States’ political, cultural, economic, and social movements from Progressivism through WWII. Examines various topics including the Progressive Reforms, WWI, the Great Depression, the New Deals, and WWII.

**HIST 3733**  
*United States since 1945*  
3:3:0  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
Provides an overview of major themes in U.S. history from the end of World War II to the present.

**HIST 3740**  
*American Revolution*  
3:3:0  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  

**HIST 3745**  
*Civil War and Reconstruction*  
3:3:0  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
Describes forces at work in the antebellum period that led to sectionalism and eventually to civil war. Examines military, political, social, economic, and racial issues before, during, and after the war. Analyzes the painful period of Reconstruction and its historiography.

**HIST 3800** (Cross-listed with: GEOG 3800)  
*Environmental History of the United States*  
3:3:0  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
Examines human modification of the American landscape. Surveys the physical geography of the United States, landscape change during Native American to European transition, and causes of agricultural and industrial pollution. Explores land ethics, processes of environmental degradation, technological remedies, history of federal laws and protection agencies. May include field experiences.

**HIST 381G**  
*Prcolicmbian America*  
3:3:0  
* Prerequisite(s): (HIST 1700 or HIST 2700 or HIST 2710 or ENGL 1010 or HIST 180G or ANTH 180G) and University Advanced Standing  
Examines evidence for the first Americans, Clovis-Folsom hunters, origins of agriculture, and development of cultures and civilizations in North, Middle, and South America. Surveys the most recent archaeological research on major American societies, emphasizing the balance between Native and Euro-American perspectives on history and science. Examines the effects of the European conquest of the Americas on Native populations and cultures, and on global historical processes.

**HIST 382G**  
*Indians of Eastern North America*  
3:3:0  
* Prerequisite(s): Sophomore Standing and University Advanced Standing  
Surveys the histories of native communities of Eastern North America from the pre-Columbian period to the present. Includes the diversity of cultures in this region; encounters in the colonial period with France, England, and Spain, and the geopolitics of Native-White relations; the role of native communities in the American Revolution; resistance movements and leaders, such as Tecumseh; Indian Removal; the role of native communities in the Civil War; land loss in the 19th and 20th centuries; cultural survival; and modern economic development.

**HIST 383G**  
*Indians of the Great Plains*  
3:3:0  
* Prerequisite(s): (HIST 1700 or HIST 2700 or HIST 2710 or HIST 180G/ANTH 180G or ENGL 1010) and University Advanced Standing  
Surveys the histories of native communities of the Great Plains, ranging the emigrant Indians of Indian Territory to the hunter/nomads of the High Plains. Emphasizes geopolitical relations of the eighteenth and nineteenth centuries and the conditions of resistance to conquest. Highlights the identification and use of primary sources, both for scholarly activity and making sources available to native peoples.

**HIST 384G**  
*Indians of the Southwest*  
3:3:0  
* Prerequisite(s): History 3010 or instructor approval; and University Advanced Standing.  
Surveys the cultural geography and social institutions of cultures of Indians of the American Southwest and their antecedents. Examines the similarities and differences among Southwestern Indian cultures and between Indian cultures and other social groups in the United States. Focuses on historic and contemporary relations among Indian cultures and between Indian cultures and the United States federal and state governments.

**HIST 385G**  
*The Struggle for Self-determination--American Indians 1891 to present*  
3:3:0 Spring  
* Prerequisite(s): (HIST 1700 or HIST 2700 or HIST 2710 or HIST/ANTH 1800 or ENGL 1010) and University Advanced Standing  
Surveys American Indian history from the Wounded Knee Massacre of 1891 to the present. Examination of how American Indians changed the emphasis of resistance to social, political, and cultural assimilation from armed conflict to the employment of legal and political strategies for achieving self-determination.
HIST 3870 Constitutional History to Plessy 1896 3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Explores, in a critical and historical framework, US Constitutional History to Plessy (1896). Examines the origins and general principles of Constitutional thought (Coke, Montesquieu, Sidney, etc.), and the Colonial, Confederate, and Constitutional periods of early US history (including the Marshall Court's advancement of the doctrine's of judicial review and national supremacy.) Concludes by examining the various Constitutional issues relating to slavery, secession, civil war, and laissez-faire governmental policies.

HIST 3880 Constitutional History since Plessy 1896 3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Explores, in a critical and historical framework, US Constitutional History since Plessy (1896). Examines the development of US Constitutional thought from the late Nineteenth Century to the present Rehnquist Court, with special attention being given to the progressive era, the New Deal, liberal constitutionalism, and the Court's modern interpretations of Civil Rights and Civil Liberties.

HIST 400R History Practicum 3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Provides instruction and experience in specific sub-disciplines such as business history, family history, historic preservation, local history and oral history. Topic varies each semester. May be repeated once for a maximum of 6 credits toward graduation as long as course topic is substantially different than previous class.

HIST 4100 Jewish History 3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Surveys the history of the Jewish people from the Biblical period to the present. Analyzes Jewish cultural and religious contributions to world history. Examines religious and political Zionism leading to the establishment of the State of Israel.

HIST 4130 Anti-Semitism and the Holocaust 3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Analyzes the rise of "advanced" anti-semitism in the late 19th and early 20th century and the factors that contributed to the mass destruction of Jews. Also analyzes how the same racial ideas that furthered anti-semitism were used against Gypsies, Slavs, and other "subhumans." Students take part in active discussions and oral presentations, and will write analytical papers on topics of their choosing.

HIST 4140 Genocide in the Twentieth Century 3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Explores and analyzes the major genocides of the twentieth century: the Armenian Massacre, the Holocaust, the Killing Fields of Cambodia, the Balkan genocides, and the Rwandan genocide. Promotes a greater understanding of why and how genocides occurred in the twentieth century. Teaches and improves critical thinking, writing, and comprehension skills and develops additional skills in using comparative history, historiography, and primary and secondary sources.

HIST 4170 The USSR Under Stalin 3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Explores and analyzes the economic, social, and political aspects of Stalin and Stalinism in the Soviet Union. Covers topics such as increasing centralization, the Great Purges, World War II, the Cold War, and post-Stalin reforms. Uses novels and primary documents extensively.

HIST 420R Issues and Topics in Global History 3:3:0
* Prerequisite(s): History 3010 or instructor approval; and University Advanced Standing
Surveys a specific topic in Global History. Topic varies each semester. A maximum of 6 credits may be applied toward graduation.

HIST 4250 Teaching History in the Secondary Curriculum 3:3:0
* Prerequisite(s): Admission to Professional Education Program, (EDSC 4550 or instructor approval), and University Advanced Standing
For students majoring in secondary education. Examines teaching methodology as related to teaching history and learning teaching strategies to prepare students for secondary education certification. Utilizes various group projects, classroom exercises, and an actual teaching project at the end of the semester. Evaluated by participation, teacher evaluation, written evaluation, exams, personal journal, and a final teaching project.

HIST 430G Violence and Social Conflict in Latin America 3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Examines impact of violence and social conflict in Latin American society. Covers from Ancient Native American cultures to the present.

HIST 4320 History of Scientific Thought 3:3:0
* Prerequisite(s): History 3010 or instructor approval; University Advanced Standing
Explores development of Western scientific context from 6th century B.C. Greece to modern times. Emphasizes how our understanding of nature is influenced by a scientific approach. Examines technological impact of science on our lives.

HIST 4330 Machines in the Making of History 3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Explores the development of modern technology with special reference to the Industrial Revolution of the nineteenth century and the Information Revolution of the twentieth. Weekly case studies focus on major innovations which have helped shape the modern world. Completing students should better appreciate the interaction technology change as a historical phenomenon.

HIST 435R Issues and Topics in the History of Science 3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Surveys a specific topic in the History of Science. Topic varies each semester. May be repeated once for credit as long as course topic is substantially different than previous class.

HIST 461G Peoples of the Atlantic World 1450-1800 3:3:0
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing
Offers an introduction to the main themes and issues of the early Atlantic world and the field of Atlantic History, from the angle of intercultural relations and social/ political productions. Examines in depth the encounters, exchanges, and clashes between Africans, Europeans, and Native Americans through the life experiences of the peoples who lived

HIST 463G Missions and Conversion in Early North America 3:3:0
* Prerequisite(s): (HIST 2700 or HIST 3730) and (ENGL 2010 or ENGL 2020 with a grade of C+ or higher, or instructor approval) and University Advanced Standing
Examines in a comparative perspective various European religious missionary enterprises in North America and their reception among Indians from the seventeenth century through the antebellum period. Surveys the origins, doctrines, methods, and changes over time of the Jesuit, Franciscan, Moravian, Puritan, and other Protestant missions, emphasizing the international and multicultural aspects of the missionary landscape in early America. Addresses the ways in which various Native American groups and individuals responded to these European missionary efforts.
HIST 466G  
Legacies and Reckonings in the American West  
3:3:0  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
Interdisciplinary survey of key theories and issues in the American Western. Examines the diverse experiences of peoples and cultures in the West, the cultural symbolism of the American West, different cultures’ interactions/relationships with the environment, and the role of myth in the formulation of regional identity.

HIST 471R  
Special Issues and Topics in American History  
3:3:0  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
Surveys a specific topic in American History. Topic varies each semester. May be repeated once for credit as long as course topic is substantially different than previous class.

HIST 472R  
Public History Internship  
2 to 9:1:4 to 32  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
Provides opportunities for internship experience in public history organizations, including, but not limited to, museums, archives, manuscript collections, federal, state, local, and private historical sites, and governmental and non-governmental history organizations. May be repeated for a maximum of 9 credits toward graduation. May be graded credit/no credit.

HIST 480R  
Independent Study  
1 to 4:1 to 4:0  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
Provides independent study for students unable to secure a desired class within regular semester curriculum offering. With approval of dean and/or department chair, student and instructor design and complete readings and other projects at the upper-division level. A maximum of 6 credits may be applied toward graduation.

HIST 491R  
Directed Readings  
2 to 4:2 to 4:0  
* Prerequisite(s): History 3010 and instructor approval. University Advanced Standing  
Allows students to work intensively with faculty to deeply explore specific topics that are not normally offered in the two-year cycle of the History Program. May be repeated for a maximum of 4 credits toward graduation.

HIST 4980  
Senior Research Thesis Research Component  
3:3:0  
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing  
First half of the capstone experience for Majors. Requires students to work with a faculty member in a directed and extensive research and writing project. Topics vary according to thesis director. Honors students should consult Honors Program for thesis options.

HIST 4990  
Senior Research Thesis Writing Component  
3:3:0  
* Prerequisite(s): HIST 4880 and Senior Standing in History and University Advanced Standing  
Second half of the required capstone experience for History Majors. Student continues to work on and complete the extensive research, analysis, and writing project developed in HIST 4980 under faculty direction. Honors students should consult Honors Program for thesis options.

Community Health (HLTH)  

HLTH 1100  
Personal Health and Wellness  
2:2:0  
Fall, Spring, Summer  
Examines the basic health wellness concept of good health through healthy living. Develops a greater appreciation for bodies and understanding of requirements to maintain or achieve good physical, mental, emotional, social, and spiritual health. Includes lecture, discussion groups, guest lecturers, media, and role-playing. May be delivered online.

HLTH 1200  
First Aid  
2:2:0  
Fall, Spring, Summer  
For allied health professions such as nursing, community health, gerontology, radiology, physical therapy, sports medicine, and for other students and community members. Provides emergency first aid care training. Structured to meet National Safety Council First Aid requirements. Successful completers will be certified in First Aid and CPR. Includes lectures, lab with hands-on experience with mannequins, audiovisuals, discussions, and field trips.

HLTH 1300  
Medical Terminology I  
2:2:0  
Fall, Spring, Summer  
Helps students read and understand the language of medical terminology. Stresses terminology usage and accuracy. Studies elements, abbreviations, spelling, pronunciation, and logic of medical terminology. Includes lectures and audiovisual presentations.

HLTH 2000  
Body Image, Self-Esteem, and Weight Management  
3:3:0  
Provides students with the information and tools necessary to understand and manage eating habits, body size, and self-esteem concerns in a healthy way.

HLTH 2200  
Introduction to Health Professions  
2:2:0  
Fall  
For students planning to major in a health related field. Examines the historical and continuing evolution of health care. Explores work description, environment, employment opportunities, education, expectations, legal requirements, and expected earnings of each covered health profession. Focuses on, but not limited to: medicine, dentistry, nursing, community health, optometry, respiratory care, dental hygiene, physical therapy, and social work.

HLTH 2400  
Concepts of Stress Management  
3:3:0  
Fall, Spring  
For those interested in developing skills and techniques necessary to work with clients in stress reduction programs. Includes identifying, managing, and eliminating stress in individuals, families, and communities. Examines effects of stress on the immune, endocrine, and nervous systems and the relationship to disease. Teaches stress reduction application and methods in wellness and health care settings.

HLTH 2510  
Media and Computer Applications in Health  
3:3:0  
Introduces students to computer-based methods for accessing, analyzing, and communicating health-related information. Explores the relationship between mass media and health promotion and the key elements in the development of successful health communication campaigns.

HLTH 2600  
Drugs Behavior and Society  
3:3:0  
Fall, Spring, Summer  

HLTH 2800 (Cross-listed with: PSY 2800)  
Human Sexuality  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): ENGL 1010  
Interdisciplinary course in human sexuality, exploring topics in biology, health, psychology, and sociology. Introduces basic concepts of human sexuality, including anatomy, reproduction, and sexual response across the life-cycle. Studies gender roles, sexual orientation, dysfunction, and sexually transmitted disease. Examines sexual behavior from the perspective of ethics, religion, the law, and education. Students assess their sexual attitudes and should be able to make responsible sexuality decisions.
HLTH 289R
Undergraduate Research
1 to 3:0 to 15
* Prerequisite(s): Instructor/departmental permission
Provides students the opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is characteristic of the community health/administration discipline and worthy of communication to a broader audience. May be repeated for a maximum of 3 credits toward graduation.

HLTH 3000
Health Concepts of Death and Dying
3:3:0 Fall, Spring
* Prerequisite(s): (Sophomore Standing or Instructor Approval) and University Advanced Standing
For students interested in various health care professions. Examines information and data pertaining to death in the United States. Discusses historical and cultural perspectives of death, causes of death, definitions of death, stages of dying, bereavement, the will to live, legal and ethical issues, euthanasia, and suicide. Focuses on attitudes and values of Americans concerning death. Studies ways to work with and relate to dying individuals and their families.

HLTH 3100
Health Education for Elementary Teachers
2:2:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 1010 and University Advanced Standing
For Elementary Education majors. Emphasizes the role of the teacher as a health educator and team member in providing a healthy school environment. Studies the basic Utah health core curriculum. Develops learning activities applicable to the health needs of the elementary school student.

HLTH 3150 (Cross-listed with: ANTH 3150)
Culture Ecology and Health
3:3:0 Fall
* Prerequisite(s): ENGL 2010 or ENGL 2020 with a grade C+ or higher), ANTH 101G, and University Advanced Standing
Examines reciprocal roles of culture, environment, and disease in human health. Covers nutrition, stress, and traditional non-Western treatments. Explores cultures’ use of their own global medicine to support health and welfare.

HLTH 3200
Principles of Community Health
3:3:0 Spring, Summer
* Prerequisite(s): University Advanced Standing
For students in health and behavioral sciences who wish to work in community health settings. Presents the role and function of various community health services and agencies and how they interface. Examines health care models and agencies, health care reform, health objectives for the nation, and health planning and promotion. Explores life style risk reduction, environmental issues, ethical health issues, and other appropriate topics. Includes lecture, videos, class discussion, student presentations, and outside assignments. May be delivered online.

HLTH 3220
Foundations of Health Education
3:3:0 Fall
* Prerequisite(s): (Sophomore Standing or Instructor Approval) and University Advanced Standing
For students interested in a community health career. Examines the history and role of health education in today’s society. Covers the philosophical principles and models utilized in the delivery of health education. Analyzes types of health information available in health journals and on the internet. Introduces the major health associations and describes the competencies necessary for certification as a Health Education Specialist. May be delivered online.

HLTH 3240
Womens Health Issues
3:3:0 Fall, Spring
* Prerequisite(s): HLTH 1100 and University Advanced Standing
For students in various health care professions. Reviews important dimensions of a woman’s health and examines the contributing epidemiological, historical, psychosocial, cultural/ethnic, legal, political, and economic influences. Focuses on women throughout their lifespan and incorporates the many factors that affect health and well-being. Stresses prevention, health promotion, research, clinical intervention, and public policy that form the interlocking basis when considering the different diseases, disorders, and conditions that affect women. Provides a practical approach to examining and understanding health issues that are unique to women—all ages, races, socioeconomic strata, and cultures. May be delivered hybrid.

HLTH 3250
Consumer Health
3:3:0 Spring
* Prerequisite(s): HLTH 1100 and University Advanced Standing
For students interested in a community health career. Focuses on helping students become discriminating consumers of health information, products, and services. Explores consumer health issues including types, cost, availability, efficacy, and safety of health care products and services. Examines health quackery, faddism, and consumer protection.

HLTH 3260
Modifying Health Behavior
3:3:0 Fall
* Prerequisite(s): HLTH 1100 and University Advanced Standing
For students interested in community and school health programs. Investigates holistic health and behavioral changes that can positively influence total human well-being. Discusses factors that impact personal health behavior. Focuses on behavioral change models and theories including planning, implementation and evaluation. Examines health counseling approaches, group process, and strategies related to specific health problems.

HLTH 3270
Grant Writing
3:3:0
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Provides students with the needed knowledge and skills for grant writing. Teaches the major elements of grant writing including the identification of grant sources, writing grant proposals, and preparation of budgets and timelines.

HLTH 3300
Health Promotion for Older Adults
3:3:0 Fall
* Prerequisite(s): HLTH 1100 and University Advanced Standing
For students in health and behavioral sciences and other related fields who wish to work in gerontological settings. Examines health issues and problems of older adults. Addresses topics affecting older adults including: the aging process, chronic and infectious diseases, health care resources, and health promotion. Also covers medication issues, long-term care, death and dying, and other related topics.

HLTH 3350G
International Health
3:3:0
* Prerequisite(s): ENGL 1010 and University Advanced Standing
Provides knowledge regarding the various health issues that affect people around the world. Focuses on the role of culture, ethnicity, country of origin, politics, and gender on health. Examines the importance of cultural sensitivity and competence when attempting to eradicate public health concerns.

HLTH 3500
Social Promotion
3:3:0
* Prerequisite(s): University Advanced Standing
Teaches how to promote social changes to the consumer. Teaches packaging, positioning and framing of programs to appeal to more salient, powerful, and influential core values: freedom, independence, autonomy, control, fairness, democracy, and free enterprise. Discusses marketing principles, planning, implementing, and evaluation of public health programs, strategic planning, social change theory, and case studies.

HLTH 3600
Grant Writing
3:3:0
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Provides students with the needed knowledge and skills for grant writing. Teaches the major elements of grant writing including the identification of grant sources, writing grant proposals, and preparation of budgets and timelines.
Course Descriptions

HLTH 3800 Epidemiology
3:3:0 Fall
* Prerequisite(s): Statistics and University Advanced Standing; HLTH 3400 recommended

For students interested in a Community Health option within the Integrated Studies Degree. Also for students interested or working in health care fields such as nursing, dental hygiene, etc. Introduces epidemiologic principles and methods. Examines the historical and theoretical bases of epidemiology; statistical methods; distribution of disease over person, place and time; research methods utilized in epidemiology; and the application of epidemiology to the prevention of disease and the promotion of health.

HLTH 4100 Health Education Curriculum for Secondary Teachers
3:3:0
* Prerequisite(s): (Sophomore Standing or Instructor Approval) and University Advanced Standing

For secondary education majors. Emphasizes the role of the teacher as a health educator and team member in providing a healthy school environment. Examines comprehensive school health education and studies the basic Utah health core curriculum for secondary education. Develops learning activities applicable to the health needs of secondary education students.

HLTH 4140 Community Health Assessment and Program Development
3:3:0
* Prerequisite(s): HLTH 3200, HLTH 3220, and University Advanced Standing

Intended for Community Health Education majors. The first of two courses which will help students develop the skills to successfully begin the program planning process. Content covered will include building a rationale, gaining support of stakeholders, selecting an appropriate model or theory, conducting a needs assessment, developing goals and objectives, and determining appropriate health education strategies.

HLTH 4150 Community Health Program Development and Evaluation
3:3:0 Spring
* Prerequisite(s): (HLTH 3200 or Instructor permission) and University Advanced Standing; HLTH 3220 recommended

For students interested in a community health career. Covers the methodology necessary to successfully plan, develop, and deliver effective health education programs. Focuses on the skills necessary to carry out program development assessing need, planning, implementing, evaluating, and revising in community health settings.

HLTH 4160 Program Implementation and Evaluation
3:3:0
* Prerequisite(s): HLTH 4140 and University Advanced Standing

Intended for Public and Community Health majors. Builds upon HLTH 4140 and develops the knowledge, skills, and abilities to conduct health program implementation and evaluation. Includes a systematic approach to the implementation and evaluation of health education programs.

HLTH 4200 Health Education Teaching Methods
3:3:0
* Prerequisite(s): HLTH 4100 and University Advanced Standing

For secondary education school health majors. Examines teaching methods, materials and techniques. Studies secondary education health curriculum, program planning, development, implementation, and evaluation. Students will develop lesson plans and present them in secondary education settings.

HLTH 4250 Health Services Organization and Policy
3:3:0 Spring
* Prerequisite(s): (HLTH 3200 or Instructor Approval) and University Advanced Standing

For students in health care fields and integrated studies who wish to work in health service settings. Presents organization structure of various health services and agencies. Examines the following issues as they relate to health care settings and agencies: financing and budgetary processes; available resources, networking and coalition building; administrative processes, politics, policy making, communication styles and issues; evaluation and outcome assessments. Includes lecture, class discussion, web enhancements, video, student presentations and outside assignments.

HLTH 4300 Community Health Ethics
3:3:0 Fall
* Prerequisite(s): HLTH 3200 and University Advanced Standing

For students majoring in Community Health or Integrated Studies with a Community Health emphasis. Also for students interested or working in health-care fields such as nursing, dental hygiene, etc. Explores and interprets ethical codes of conduct as set forth by health professions and/or organizations. Emphasis will be given to the Code of Ethics for the Health Care profession. Examines various health care issues such as: health care allocation, health care costs, death and dying issues, patient rights, informed consent, confidentiality etc. Investigates conflicts arising from existing and evolving codes of conduct using case studies as an arena for discussion.

HLTH 440G Health and Diversity
3:3:0
* Prerequisite(s): HLTH 3200 and University Advanced Standing

Provides students with a specific set of skills and knowledge in cultural competence. Focuses on understanding the public health system, identifying one's own cultural biases, understanding biases regarding one's own cultural identity, and developing culturally competent approaches and tools. Enables students to be more effective public health professionals whether they work with diverse populations within the United States or in international settings.

HLTH 4500 Public Health Administration
3:3:0
* Prerequisite(s): HLTH 3200 and University Advanced Standing

This course is designed to give individuals a working and practical look at numerous aspects of public health administration and leadership. Topics include: definitions of leadership, qualities of an effective leader, sources of power, time management, the planning and decision making process, three core functions of public health, social marketing strategies as well as other timely topics related to the administration and practice of public health.

HLTH 4600 Research Methods for Community Health
3:3:0 Spring
* Prerequisite(s): (Statistics required or instructor approval) and University Advanced Standing

For students interested in a Community Health option within the Integrated Studies Degree. Also for students interested or working in health care fields such as nursing, dental hygiene, etc. Introduces research techniques, methodology, and designs. Examines the planning, organizing, and conducting of research studies for solving problems unique to community health. Includes literature review and research article critiques.

HLTH 4700 Capstone
3:3:0
* Prerequisite(s): Senior Standing, Community Health majors, and University Advanced Standing

Provides students with preparation for graduate school and their first job in health education. The course has three main focus areas: (1) Preparation for the CHES exam, (2) graduate school applications, and (3) job applications including creating a portfolio and mock interviews. Intended for seniors in the Community Health emphasis.

HLTH 482R Community Health Internship
2 to 6:1:5 to 25
* Prerequisite(s): Completion of Community Health Discipline Core with GPA 2.5 and University Advanced Standing

For students majoring in Community Health with an emphasis in Community Health Education or Health Care Administration. Community field work intended to give the students experience and knowledge in community health education and services. The internship is spent in appropriate community health programs, under the preceptorship of an individual qualified by education and/or experience. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

HLTH 483R International Health Education Internship
2 to 6:1:5 to 25
* Prerequisite(s): Instructor approval and University Advanced Standing

For students wishing to gain experience in international health issues. Offers experience and knowledge in international education and services. Requires participation in an appropriate health program under the preceptorship of an individual qualified by education and/or international experience. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

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Hospitality Management (HM)

HM 1010 Introduction to Hospitality Industry 3:3:0 Fall, Spring

Designed for hospitality management majors and as elective credit for other business majors. Provides a basic understanding of the lodging and food service industry by tracing the industry's growth and development. Analyzes management's functions and responsibilities in such areas as administration, organization, communications, accounting, marketing, and human relations. Examines industry opportunities and future trends. Includes lecture, field trips, guest speakers, films, and tapes. Completers should have a knowledge of career opportunities and basic hospitality management principles. May be delivered hybrid and/or online. Lab access fee of $32 for computers applies.

HM 1110 Food Production Principles 3:3:1

Designed for hospitality management majors and as elective credit for other business majors. Explains the techniques and procedures of quality and quantity food production. Studies the selection and preparation of major food products. Provides an extensive set of basic and complex recipes for practice. Includes lectures, lab, visits of guest chefs, and field trips. Completers should be prepared to enter the working field as a prep cook. Lab access fee of $32 for computers applies. Course fee of $150 for materials applies.

HM 1130 Hotel Operations I 3:3:0 Fall, Spring

Designed for hospitality management majors and as elective credit for other business majors. Presents a systematic approach to front office procedures by detailing the flow of business through a hotel beginning with the reservation process and ending with check-out settlement. Examines various elements of effective front office management, paying particular attention to planning and evaluating front office operation and to personnel management. Front office procedures and management are placed within the context of the overall operation of a hotel. Includes role play and computer simulations. Completers should be competent to be a beginning front desk clerk. May be delivered online. Lab access fee of $32 for computers applies.

HM 1180 Food and Beverage Management 3:3:0 Fall, Spring

Designed for hospitality management majors and as elective credit for other business majors. Studies management principles of menu planning, purchasing, storage, food and beverage production, service, and sanitation. Includes lecture, case studies, guest speakers, field trip and project. Completers should understand the basic structure of a hospitality unit and how management principles relate to a restaurant. May be delivered online. Lab access fee of $32 for computers applies.

HM 281R Cooperative Work Experience 2 to 9:1:5 to 40 Fall, Spring, Summer

* Prerequisite(s): Approval of School of Business Career and Corporate Manager

Provides opportunities to apply classroom theory on the job. Students work as paid employees in a job that relates to their careers while enrolled at the College. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. A total of six credits may be applied toward graduation with a diploma or AAS degree and three credits toward Certificate programs. May be graded credit/no credit.

HM 2890 Industrial Work Experience 1 to 8:0:5 to 40 Fall, Spring, Summer

Designed for hospitality management majors as elective credit. Provides practical work experience in an actual restaurant, applying management theory in carrying out duties assigned by the manager/owner.

HM 296R Hospitality Management Seminar 1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): Instructor/Department Chair Approval

Provides short courses, workshops, and special programs in hospitality management or culinary arts topics. Repeatable for up to three credits.

HM 297R Independent Study 1 to 3:1 to 3:0 Not Offered

* Prerequisite(s): Department Chair Approval

Offers independent study as directed in reading, in individual projects, etc., in the area of hospitality management or culinary arts at the discretion and approval of the department chair. May be repeated for up to 6 credits toward graduation.

HM 3020 Hospitality Managerial Accounting 4:4:0 Fall, Spring

* Prerequisite(s): ACC 2010 and University Advanced Standing

Presents managerial accounting concepts and explains how these concepts apply to specific operations within the hospitality industry. Covers the principles and procedures involved in developing an operating budget, income and costs controls, and pricing models. Designed to present the general conceptual framework for understanding managerial accounting concepts and then make decisions using various techniques that are informed, rational, and well thought out. Introduces various financial topics and practice application techniques. Lectures, demonstrations, and case studies will be used in class. May be delivered online. Lab access fee of $32 for computers applies.

HM 3050 Country Club Management 3:3:0 Not Offered

* Prerequisite(s): University Advanced Standing

Provides a basic understanding of country club management with golf operations. Analyzes management’s functions and responsibilities in such areas as administration, organization, communications, accounting, marketing, and human relations. Examines industry opportunities and future trends. Includes lectures, field trips, guest speakers, films, and tapes. Completers should have knowledge of career opportunities and basic hospitality management principles.

HM 3150 Hospitality Finance 3:3:0 Fall, Spring

* Prerequisite(s): HM 3020 and University Advanced Standing

Presents the general conceptual framework for understanding and applying techniques of value creation for a hospitality firm. Includes risk and value, timing and value of cash flows, valuation and required rates of return, capital expenditure analysis, project valuation criteria, capital structure management, and financial markets. Introduces financial topics and practices application techniques. Includes lecture, demonstration, case studies, and guest speakers. May be delivered online. Lab access fee of $32 for computers applies.
Course Descriptions

HM 3200 (Cross-listed with: MGMT 3200) Global Tourism 3:3:0 Fall, Spring
* Prerequisite(s): (MKTG 2200 or ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies the history and future of tourism, the impacts (environment, culture, economy) of tourism, and tourist behavior. Includes lectures, case studies, field trips, and guest speakers. Completers should be sophisticated travelers and understand the nature of the world's largest industry and its impacts on society and national economies.

HM 3210 (Cross-listed with: MGMT 3210) Convention and Events Management 3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Analyzes the meeting, convention, and events industry. Covers the various disciplines of planning including site selection, organizing, budgeting, catering, entertainment, and promotion. Introduces career opportunities through guest speakers who are industry professionals.

HM 3390 Hotel Operations II 3:3:0 Fall, Spring
* Prerequisite(s): HM 1130 and University Advanced Standing

Overviews fundamentals of housekeeping management. Describes the management functions, tools, and practices required in today's lodging and institutional housekeeping departments. Provides students with information they need to successfully manage a physical plant and work effectively with engineering and maintenance. Includes lecture, role play, site visits, film, and tapes. Completers should have a basic understanding of housekeeping and facility management. May be delivered online. Lab access fee of $32 for computers applies.

HM 3640 Food and Beverage Controls 3:3:0 Fall, Spring
* Prerequisite(s): ACC 2010 and University Advanced Standing

Designed for hospitality management majors and as elective credit for other business majors. Covers the principles and procedures involved in an effective food and beverage control system, including standards determination, the operating budget, income and cost control, menu pricing, and computer applications. Includes lecture and computer simulation. Completers should have a basic understanding of control functions within a hospitality unit and be familiar with computer control systems. May be delivered online. Lab access fee of $32 for computers applies.

HM 3710 Marketing of Hospitality Services 3:3:0 Fall, Spring
* Prerequisite(s): MKTG 2200 and University Advanced Standing

For hospitality management majors and as elective credit for other business majors. Provides basic knowledge and practical experience which will enable students to develop strategic marketing plans for hotel/motel properties. Focuses on practical sales techniques, proven approaches to selling to targeted markets, and advertising's role in sales. Includes lecture, role play, case studies, simulations and projects. Completers should be able to develop a marketing study of hospitality unit and understand marketing and sales techniques. May be delivered online. Lab access fee of $32 for computers applies.

HM 4150 Hospitality Revenue Management 3:3:0 Spring
* Prerequisite(s): HM 3020 and University Advanced Standing

Designed for hospitality management majors on the HM Accounting Track. Addresses the emerging revenue management process and the keys to effective revenue management planning. Explores how to develop, implement, and evaluate strategic management processes. May be delivered hybrid and/or online.

HM 4450 Hospitality Industry Management 3:3:0 Spring
* Prerequisite(s): HM 3710 and (Matriculation into Business Management Bachelor's Degree Program or Hospitality Management Bachelor's Degree Program) and University Advanced Standing

Examines delivery of the organization's product or service. Includes investigative and production planning, scheduling of operations, allocation of resources, manpower and equipment decisions, inventory control, production planning, and quality. May be delivered online. Lab access fee of $32 for computers applies.

HM 481R Internship 2 to 8:0:10 to 40 Fall, Spring, Summer
* Prerequisite(s): Approval of School of Business Career and Corporate Manager, and University Advanced Standing

For Bachelor of Science Degree students in Business Management or Hospitality Management. Provides opportunities to apply classroom theory on the job. Students work as employees in a job that relates to their careers while enrolled at the College. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. 3 credits may be applied toward a Bachelor of Science degree in Business Management; 6 credits may be applied to the Hospitality Management degree. May be graded credit/no credit.

HM 496R Hospitality Management Seminar 1 to 3:1 to 3:0 On Sufficient Demand
* Prerequisite(s): Instructor/Department Chair Approval and University Advanced Standing

Provides short courses, workshops, and special programs in hospitality management. Repeatable for up to 3 credits.

HM 497R Independent Study 1 to 3:1 to 3:0 Not Offered
* Prerequisite(s): Department Chair Approval and University Advanced Standing

For bachelor's degree students and other interested persons. Offers independent study as directed in reading, in individual projects, etc., in the area of hospitality management at the discretion and approval of the department chair.

Honors (HONR)

HONR 100R Honors Colloquium 1:1:0 Fall, Spring
* Prerequisite(s): Current enrollment in Honors program

Limited to students accepted to the Honors Program. Includes experiential education activities and cohort-building academic experiences, cultural events, and research/service projects. Develops reflective writing abilities. May include readings, guest lectures, community/campus service and leadership projects, research groups, outdoor excursions, and attendance at fine arts performances. May be repeated for a maximum 4 credits toward graduation. Course fee of $15 for tickets, rental applies.

HONR 2000 Ancient Legacies 3:3:0 Fall, Spring
* Prerequisite(s): Current enrollment in Utah Valley University Honors program or permission of the instructor

Provides students with the opportunity to study selected great works in the history of ideas from an interdisciplinary perspective. Examines Ancient, Medieval, and early Renaissance thought through primary texts composed before 1500 C.E. Focus of the class determined by instructor, but must include at least one text written during each of these periods, and at least one non-Western text. Emphasizes close study of primary texts drawn from disciplines including, but not limited to, astronomy, physics, biology, literature, history, philosophy, and religion. Develops strong critical thinking, writing, and rhetorical skills.

HONR 2100 Modern Legacies 3:3:0 Fall, Spring
* Prerequisite(s): Current enrollment in Honors program or permission of the instructor

Provides students with the opportunity to study selected great works in the history of ideas from an interdisciplinary perspective. Examines Modern and Contemporary thought through primary texts composed after 1500 C.E. Focus of the class determined by instructor, but must include at least one text that adds diversity (for instance, in ethnicity, class, or gender). Emphasizes close study of primary texts drawn from disciplines including, but not limited to, astronomy, physics, biology, literature, history, philosophy, and religion. Develops strong critical thinking, writing, and rhetorical skills.
HONR 300R
Honors Interdisciplinary Seminar
1 to 4:1 to 4:0 to 3 
On Sufficient Demand
* Prerequisite(s): ENGL 101H and (current enrollment in UVU Honors Program or instructor approval) and University Advanced Standing
Approaches varied topics from an interdisciplinary perspective. Varies by semester. Specific content determined by faculty. Often team-taught. Consists of rigorous analysis and synthesis of innovative, current or special topics. Involves intensive discussion, reading, writing. May include lab or performance requirement. Topics may be drawn from any academic discipline including but not limited to business, technology and computing, education, fine and performing arts, physical and biological sciences, health science, humanities, and social sciences. May be repeated for a maximum of 9 credits toward graduation; however, only 3 credits may be applied to honors program requirements.

HONR 498R
Honors Thesis
3:0:6 Fall, Spring
* Prerequisite(s): (Senior status or permission of Honors Director) and University Advanced Standing
* Corequisite(s): Enrollment in Honors Program
For students completing the Honors Program. Provides an opportunity for seniors in the Program to research and write on a topic related to their major, supervised by a faculty mentor. Includes independent research as necessary. Culminates in the preparation of a written paper and oral presentation describing the results of the research project. Honors Project HONR 498 may be substituted. If a student's major department offers a thesis course, that course may be substituted. May be repeated for a maximum of 6 credits toward graduation. Course fee of $10 for binding applies.

HONR 499R
Honors Project
3:0:6 Fall, Spring
* Prerequisite(s): (Senior status or permission of Honors Director) and University Advanced Standing
* Corequisite(s): Enrollment in Honors Program
For students completing the Honors Program. Provides an opportunity for seniors in the Program to research and write on a topic related to their major, supervised by a faculty mentor. Includes independent research as necessary. Culminates in the preparation of a written paper and oral presentation describing the results of the research project. Honors Project HONR 499 may be substituted. If a student's major department offers a thesis course, that course may be substituted. May be repeated for a maximum of 6 credits toward graduation. Course fee of $10 for binding applies.

Humanities (HUM)

HUM 1010 
Humanities Through the Arts
3:0 Fall, Spring, Summer
Studies the media and compositional elements of the various art forms (literature, music, visual arts, theater, film, dance, and architecture), for greater understanding and enjoyment. Teaches how to interpret artistic meaning by analyzing artworks formally as well as in their historical contexts, such as the predominant subject matters and styles of their period. Encourages students to integrate the arts into their daily lives habitually, so that they become lifelong learners and educators. May be delivered hybrid and/or online.

HUM 101G 
Humanities Through the Arts
3:3:0 Fall, Spring, Summer
Studies the media and compositional elements of the various art forms (literature, music, visual arts, theater, film, dance, and architecture), for greater understanding and enjoyment. Teaches how to interpret artistic meaning by analyzing artworks formally as well as in their historical contexts, such as the predominant subject matters and styles of their period. Encourages students to integrate the arts into their daily lives habitually, so that they become lifelong learners and educators. May be delivered hybrid and/or online.

HUM 101H 
Humanities Through the Arts
3:3:0 Fall, Spring
Studies the media and compositional elements of the various art forms (literature, music, visual arts, theater, film, dance, and architecture), for greater understanding and enjoyment. Teaches how to interpret artistic meaning by analyzing artworks formally as well as in their historical contexts, such as the predominant subject matters and styles of their period. Encourages students to integrate the arts into their daily lives habitually, so that they become lifelong learners and educators. Places emphasis on the global, trans- and intercultural nature of human creativity and its impacts.

HUM 101R 
Humanities Through the Arts
3:3:0 On Sufficient Demand
Includes independent research and creative endeavor as necessary. Culminates in the preparation of a written paper and oral presentation describing the results of the research project. Honors Project HUM 101R may be substituted. If a student's major department offers a thesis course, that course may be substituted. May be repeated for a maximum of 6 credits toward graduation. Course fee of $10 for binding applies.

HUM 120R
Humanities Forum
3:3:0 On Sufficient Demand
Introduces students to a wide variety of aspects of the humanities. Provides enriched learning situations in which students are exposed to humanities events or noted guest scholars and other lecturers. Requires attendance of a choice of specified events on campus and off, as well as of workshop meetings with an instructor. May be repeated for a maximum of 6 credits toward graduation.

HUM 2010 
World History Through the Arts I
3:3:0 Fall, Spring, Summer
Studies early societies through the 1600s, as the first part of a two-part series which examines world civilizations through the arts. Explores formative creative events in history and their relationships to modern issues. Presents perspectives of traditional humanistic values of arts and ideas. Investigates how others have dealt with problems that humans faced in the past, and possible strategies for problem solving that might aid students today.

HUM 201T 
World History Through the Arts II
3:3:0 Fall, Spring
Studies early societies through the 1600s, as the second part of a two-part series which examines world civilizations through the arts. Explores formative creative events in history and their relationships to modern issues. Presents perspectives of traditional humanistic values of arts and ideas. Investigates how others have dealt with problems that humans faced in the past, and possible strategies for problem solving that might aid students today.

HUM 202G 
World History Through the Arts II
3:3:0 Fall, Spring
Studies societies from the 1600s, including non-Western societies, as the second part of a two-part series which examines world civilizations through the arts. Explores formative creative events in history and their relationships to modern issues. Presents perspectives of traditional humanistic values of arts and ideas. Investigates how others have dealt with problems that humans face in the past, and possible strategies for problem solving that might aid students today.

Course Descriptions
Course Descriptions

HUM 203G  Art Form Focus I  HH
3:3:0  Fall, Spring, Summer
Surveys the nature, history, and possibilities of one specific art form, such as painting, sculpture, theater, architecture, dance, music, or literature, in the context of the influence that art forms exert on each other. Deals with characteristics of a chosen art form prior to 1500 in more depth than Hum 1010 or 2010 can, while highlighting how creative events in human history always are in dialogue both with the social discourses of their times and with each other.

HUM 204G  Art Form Focus II  HH
3:3:0  Fall, Spring, Summer
Surveys the nature, history, and possibilities of one specific art form, such as painting, sculpture, theater, architecture, dance, music, or literature, in the context of the influence that art forms exert on each other. Deals with characteristics of a chosen art form after 1500 in more depth than Hum 1010 or 2020 can, while highlighting how creative events in human history always are in dialogue both with the social discourses of their times and with each other.

HUM 2100  Adventures of Ideas Through 1500  HH
3:3:0  Fall, Spring, Summer
Studies great written or visual texts in the Western or Eastern history of ideas--artistic, literary, philosophical, religious, political, technological, or scientific--from Antiquity through 1500. Readings and thematic focus vary by instructor, but all courses interrelate readings from different disciplines and world regions under one broad topic relating to the human condition, such as individuality, power, health, freedom, violence, the natural environment, etc.

HUM 210H  Adventures of Ideas Through 1500  HH
3:3:0  Fall, Spring
* Prerequisite(s): Enrollment in the UVU Honors program or approval by the instructor.
Studies great written or visual texts in the history of ideas--artistic, literary, philosophical, religious, political, technological, or scientific--from Antiquity through 1500. Readings and thematic focus vary by instructor, but all courses interrelate texts from different disciplines and world regions under one broad topic relating to the human condition, such as love, death, war and peace, family, justice, the state etc. This Honors version of HUM 2100 requires more rigorous reading and writing assignments and is open to students in the Honors program or students with special approval from the instructor only.

HUM 2200  Adventures of Ideas After 1500  HH
3:3:0  Fall, Spring, Summer
Studies great written or visual texts in the Eastern or Western history of ideas--artistic, literary, philosophical, religious, political, technological, or scientific--from the Renaissance through the present. Readings and thematic focus vary by instructor, but all courses interrelate readings from different disciplines and world regions under one broad topic relating to the human condition, such as individuality, power, health, freedom, violence, the natural environment, etc.

HUM 220H  Adventures of Ideas After 1500  HH
3:3:0  Fall, Spring
* Prerequisite(s): Enrollment in the Honors Program or instructor's approval
Studies great written and visual texts in the Eastern or Western history of ideas--artistic, literary, philosophical, religious, political, technological, or scientific--from the Renaissance through the present. Readings and thematic focus vary by instructor, but all courses interrelate readings from different disciplines and world regions under one broad topic relating to the human condition, such as individuality, power, health, freedom, violence, the natural environment, etc. This Honors version of HUM 2200 requires more rigorous reading and writing assignments and is open to students in the Honors program or students with special approval from the instructor only.

HUM 2500  Introduction to Ancient Greek I  HH
6:6:0  Fall, Spring
* Prerequisite(s): ENGL 1010
Allows students the opportunity for intensive study of the Ancient Greek language at the introductory level. Focuses primarily on Attic Greek. Focuses primarily on grammar and textbook exercises with some analysis of literary and/or philosophical selections in Ancient Greek. Relates particularly to students interested in studying Ancient Greek philosophy or Ancient Greek literature, and offers an important grounding for students interested in studying the New Testament.

HUM 2510  Introduction to Ancient Greek II  HH
6:6:0  Fall, Spring
* Prerequisite(s): HUM 2500
Allows students to continue intensive study of the Ancient Greek language at the introductory level. Focuses primarily on Attic Greek. Focuses primarily on grammar and textbook exercises with some analysis of literary and/or philosophical selections in Ancient Greek. Relates particularly to students interested in studying Ancient Greek philosophy or Ancient Greek literature and an important grounding for students interested in studying the New Testament.

HUM 281R  Cooperative Work Experience  HH
2 to 9:1:5  Fall, Spring, Summer
* Prerequisite(s): Approval of Cooperative Coordinator
Designed for Humanities emphasis students. Credit is earned through paid work experiences in humanities. Students are responsible for obtaining their own employment situations. Students meet weekly with their Cooperative Instructor to cover course objectives and also set individualized objectives. Credit is determined by the number of hours a student works during the semester. May be graded credit/no credit.

HUM 290R  Independent Study  HH
1 to 3:0:3 to 12  Fall, Spring, Summer
Provides independent study as directed in reading and individual projects. Request must be submitted for approval by the department. Students may do independent study for one, two or three credits with a limit of three credits applying toward graduation with an AA/AS degree.

HUM 295R  Directed Readings  HH
1 to 3:0:3 to 12  Fall, Spring, Summer
Provides an opportunity for second year students to do in-depth research within the Humanities. Study is limited to advanced work beyond that which can be completed in existing, available classes. A proposal must be submitted and approved by the department prior to enrollment.

HUM 3060 (Cross-listed with: ENGL 3060)  Visual Rhetoric  HH
3:3:0  Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Investigates the growing academic and cultural interest in the rhetorical nature of visual texts. Teaches critical thinking about the consumption and productions of images and multimodal texts. Explores visual grammars and other theories of visual rhetoric as articulated by contemporary image, language, and rhetoric scholars. Encourages the development of theoretical and practical knowledge through reading, discussion and analysis as well as through the production of visual texts and written work.

HUM 320R  Topics in Humanities  HH
1 to 3:1 to 3:0  Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020 or at least sophomore status) and University Advanced Standing
Studies varying topics such as a theme (e.g., death or storytelling), figure (e.g., John Cage or Michelangelo), or movement (e.g., DaDa or Pragmatism) in humanities. Involves study of more than one art form (e.g., film, literature, and music) or discipline (e.g., art, history, and biology). May be repeated for a maximum of 6 credits toward graduation with different topics.

HUM 325R  Area Studies in Humanities  HH
3:3:0  Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020 or at least sophomore status) and University Advanced Standing
Studies the literature, philosophy, and arts of a particular geographical area. Topics vary. May be repeated for a maximum of 6 credits toward graduation with different topics.

HUM 330R  Period Studies in Humanities  HH
3:3:0  Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020 or at least sophomore status) and University Advanced Standing
Provides an opportunity for second year students to do in-depth research within the Humanities. Study is limited to advanced work beyond that which can be completed in existing, available classes. A proposal must be submitted and approved by the department prior to enrollment.
HUM 3500
Approaches to Humanities
3:3:0 Fall
* Prerequisite(s): (HUM 1010 or higher) and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Surveys recent critical and aesthetic theory for each art form and teaches students how to apply theoretical approaches to the interpretation of individual texts, films, artworks, buildings, performances, etc. Includes readings of seminal works by philosophers, academic or professional critics, and practicing artists. May also study examples where the apparent divide between theory and practice is collapsed, where, for instance, an artistic product in itself may have provided a new approach for future artistic productivity and interpretation, or where a theoretical contribution has been made in such a way as to immediately demonstrate a certain creative practice.

HUM 3800 (Cross-listed with: PHIL 3800)
Aesthetics
3:3:0 Fall
* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G) and (HUM 1010 or HUM 101G or HUM 101H) and University Advanced Standing

Studies aesthetics as perceived by the disciplines of philosophy, psychology, sociology, anthropology, history, and others. Analyzes art forms, including the visual arts, literature, music, and theater from the perspective of philosophers such as Plato, Aristotle, Kant, Hume, Dewey, Danto, Bell, Collingwood, Thoreau, and Dickie.

HUM 3820 (Cross-listed with: PHIL 3820)
Philosophy Through Literature
3:3:0 On Sufficient Demand
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Provides students with an interdisciplinary approach to the study of philosophy through literature. Gives students the opportunity to read some of the most engaging thinkers and how they offer differing perspectives through a variety of texts. Breaks down some of the strict divisions placed between philosophical and literary texts.

HUM 400R
Humanism and Posthumanism
3:3:0 On Sufficient Demand
* Prerequisite(s): At least junior standing and University Advanced Standing
* Prerequisite(s) or Corequisite(s): ENGL 2010 or ENGL 2020

Explores Humanism or Posthumanism across the arts and their diverse cultural history. Defines humanism as varieties of the traditional view that Man is the measure of all things, and Posthumanism as an umbrella term for recent theoretical approaches within the humanities that challenge this view, for instance by placing humanity in the context of global or universal, intrinsically diverse and self-generating, scientific, technological, or ecological systems. May compare aspects of humanism throughout space and time, in its diverse cultural manifestations, or may focus on a twenty-first-century view of these long traditions. May also choose the example of the humanistic or posthumanistic aspects of a single time period, culture, or interdisciplinary oeuvre. Offers an opportunity to advanced students to synthesize, critique, and strengthen own viewpoints, and to expand their interdisciplinary understanding of human expression, in response to the most fundamental or recent currents within intellectual history. May be repeated for a maximum of 6 credits toward graduation.

HUM 401R
Forms and Genres Across the Arts
3:3:0 On Sufficient Demand
* Prerequisite(s): At least junior standing and University Advanced Standing
* Prerequisite(s) or Corequisite(s): ENGL 2010 or ENGL 2020

Explores forms and genres of imagery, narrative, drama, composition, or performance, across all art forms. Fosters analytical and interpretative skills in reading all kinds of texts. Highlights the inextricable interrelations among all realms of sensual, intellectual, aesthetic, and cultural experience. Illuminates the polar dynamics of tradition and innovation, continuity and change, and departure and return throughout the history of human creativity. May be repeated for a maximum of 6 credits toward graduation.

HUM 414R
Advanced Topics in Humanities
3:0:0 On Sufficient Demand

HUM 4300 (Cross-listed with: PHIL 4300)
Environmental Aesthetics
3:3:0 Spring
* Prerequisite(s): (PHIL1000, PHIL 100H, PHIL 2050, PHIL 205H, PHIL 205G, ENST 3000, HUM 1010, HUM 101H, HUM 101G, or HUM 3500) and University Advanced Standing

Introduces students to emerging themes in environmental aesthetics. Evaluates concepts and attitudes toward nature including, but not limited to, the concept of beauty in natural and human-made environments from a cross-cultural perspective. Studies environmental formalism, cognitivism and non-cognitivism, as well as divergent spiritual, ecological, religious, and moral approaches to the appreciation of nature.

HUM 490R
Directed Readings
1 to 3:1 to 3:0 Fall, Spring
* Prerequisite(s): Department Chair Approval, Instructor Approval, and University Advanced Standing

Designs reading and writing assignments in consultation with a faculty member to meet special needs or interests not available through regular course work. May be repeated for a maximum of 6 credits toward graduation.

Interdisciplinary Studies Program (IDST)

IDST 281R
Interdisciplinary Studies Internship
1 to 8:0:5 to 40
* Prerequisite(s): Department Approval

Provides supervised, practical, and professional experience for lower division students. May be repeated for a maximum of 8 credits toward graduation. May be graded Credit/No Credit.

IDST 481R
Interdisciplinary Studies Internship
1 to 8:0:5 to 40
* Prerequisite(s): Junior standing, department approval, and University Advanced Standing

Provides supervised, practical, and professional experience for upper division students preparing for a variety of careers associated with interdisciplinary studies. May be repeated for a maximum of 8 credit hours. May be graded Credit/No credit.

IDST 4900
Interdisciplinary Studies Capstone
3:3:0 Fall
* Prerequisite(s): Senior status and University Advanced Standing

For students nearing completion of an Interdisciplinary Studies minor. Provides an opportunity for students to synthesize their interdisciplinary course work. Requires and facilitates a major research project. Addresses the theoretical and practical problems of interdisciplinary research and writing. Requires participation in peer review groups and in-class presentations.

Information Management (IM)

IM 1010
Basic Computer Applications
2:2:0 Fall, Spring, Summer
* Prerequisite(s): Basic keyboarding skill

Teaches basic digital living concepts and applications. Includes computer system concepts, basics of an operating system, fundamental operating systems commands, and electronic communication and management tools. Covers Microsoft Word and Microsoft PowerPoint as common business communication tools. Course taught through hands-on lab experience and demonstration. May be delivered hybrid and/or online. Lab access fee of $35 for computers applies.
Course Descriptions

IM 101A
Word Processing Applications
1:1:0  On Sufficient Demand
Introduces word processing software. Emphasizes commands needed to create, format, revise, save, and print documents. Includes inserting and formatting graphics, tables, and tabs into a text document. Lab access fee of $35 for computers applies.

IM 101B
Presentations Applications
0.5:0.5:0  On Sufficient Demand
Introduces presentation software. Emphasizes process of creating, formatting, revising, saving, print, and showing presentations. Includes planning a slide show, choosing appropriate designs, and using templates. Lab access fee of $35 for computers applies.

IM 102R
Keyboard Reinforcement
1:1:0  On Sufficient Demand
* Prerequisite(s): Basic keyboarding skill
Emphasizes speed and accuracy through improved techniques using timed writings. One credit may apply toward a certificate or AAS degree. May be taken additional times for improvement. Business/Marketing Education majors are required to keyboard at 40 wpm for Utah State Office of Education Business Education licensing. Lab access fee of $35 for computers applies.

IM 1060
Fundamentals of Computing Technologies
2:2:1  On Sufficient Demand
Introduces computer concepts, such as hardware, software, networking, and emerging technologies in the electronic workplace. Emphasizes use of operating systems for end users. Lab access fee of $35 for computers applies.

IM 183R
IM Student Chapter
1:1:0  Fall, Spring
Develops insights regarding lifetime careers and advancement opportunities in business, education, and industry through participation in a student organization. Helps students develop professionally through opportunities to use and apply, human relations, management, social, communicative, and organizational skills. Provides opportunities for leadership positions, committee assignments, participation in school and community activities, and competition in state and national competitive events. Requires payment of local, state, and national dues. Students may choose membership in Phi Beta Lambda, the collegiate division of FBLA (Future Business Leaders of America), or IAA (International Association of Administrative Professionals). Designed for information management and education-oriented students but open to all students interested in lifetime business skills. Graded credit/no credit. May be repeated for a maximum of 4 credits toward graduation. Lab access fee of $35 for computers applies.

IM 184R
IM Student Leadership
1:1:0  Fall, Spring
* Prerequisite(s): Instructor Approval
For Phi Beta Lambda officers and International Association of Administrative Professionals. Includes development, organization, and direction of the Program of Work for student chapters. Graded on a credit/no credit basis. May be repeated for a maximum of 4 credits toward graduation.

IM 2010
Business Computer Proficiency
3:3:0  Fall, Spring, Summer
* Prerequisite(s): (IM 1010 with a grade of B- or higher) or (Basic Computer Applications Challenge Exam with a score of 80% or higher)
Encompasses two software applications, Microsoft Excel and Microsoft Access, from a business perspective. Covers intermediate level problem solving and production skills. Uses business applications in case study settings to solve problems and accomplish tasks. In company with prerequisite, meets/exceeds the Board of Regent's Business Core Advisory Committee's requirement and the Business Computer Proficiency required by the Woodbury School of Business. May be delivered online. Lab access fee of $35 for computers applies.

IM 201A
Spreadsheet Applications
2:2:0  On Sufficient Demand
* Prerequisite(s): (IM 1010 with a grade of B- or higher) or (Basic Computer Applications Challenge Exam with a score of 80% or higher) or Instructor Approval
Introduces spreadsheet software. Emphasizes process of creating, formatting, enhancing, revising, saving, and printing spreadsheets. Stresses use of formulas and functions to solve problems. Includes creating charts using spreadsheet data. Lab access fee of $35 for computers applies.

IM 201B
Database Applications
1:1:0  On Sufficient Demand
* Prerequisite(s): (IM 1010 with a grade of B- or higher) or (Basic Computer Applications Challenge Exam with a score of 80% or higher) or Instructor Approval
Introduces database software. Emphasizes process of designing, modifying, and creating related tables. Includes creating forms, generating reports and labels and constructing queries. Lab access fee of $35 for computers applies.

IM 2100
Document Processing Applications
3:3:0  Fall
* Prerequisite(s): Basic keyboarding skills

IM 2300
Information Management Principles
3:3:0  Fall
* Prerequisite(s): IM 1010 or IM 2100 or IM 2100
Includes storage and retrieval systems, managing manual and electronic files, cross referencing, automated records systems, safety, security, and disaster recovery. Discusses the records cycle, equipment, supplies, retention schedules, and micrographics and image technology. Explores legal and ethical concerns. $35 course fee for computers applies.

IM 2400
Presentation Applications
3:3:0  Fall
* Prerequisite(s): IM 1010 or IM 2100 or Instructor Approval
Uses a presentation software tool to create computer slide presentations, business charts and graphs, illustrations for desktop publishing, text charts, and other business-oriented publications. Incorporates presentation templates, clip art, charts and graphs, scanned images, sound, animations, video, and hyperlinks to create projects. Course fee of $10 for software applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

IM 2500
Graphic Applications
3:3:0  Spring
* Prerequisite(s): IM 1010 or IM 2100 or Instructor Approval
Explores digital image editing using Adobe Photoshop and Adobe Illustrator. Provides an overview of image optimization processes for the web. Lab access fee of $35 for computers applies.

IM 2600
Spreadsheet Applications
3:3:0  Fall, Spring, Summer
* Prerequisite(s): (IM 1010 with a grade of B- or higher) or (Basic Computer Applications Challenge Exam with a score of 80% or higher) or Instructor Approval
Provides an extensive study and hands-on examination of practical business applications using electronic spreadsheets. Provides comprehensive coverage of features available in the current Windows version of spreadsheet software. Course fee of $10 applies. Software fee of $15 applies Lab access fee of $35 for computers applies.

IM 2800
Integrated Software Projects
3:3:0  Spring
* Prerequisite(s) or Corequisite(s): IM 2100 and IM 2600 or Instructor Approval
Emphasizes organizing projects, prioritizing tasks, working under time pressures, and dealing with stressful situations. Requires completion of advanced document production in an automated environment using current versions of suite software packages. Course projects stress self-motivation, acceptance of responsibility, critical thinking, and effective decision making. Designed to prepare students majoring in administrative information management to enter the work force, and should be taken at the end of a program in order to grasp the concepts presented and, with little supervision, produce material acceptable on the job. Course fee of $10 for software applies. Lab access fee of $35 for computers applies.
IM 281R
Internship
1 to 8:0:5 to 40 On Sufficient Demand

* Prerequisite(s): Departmental Approval

For Information Management majors only. Provides a transition from school-to-work where learned theory is applied to actual practice through a meaningful on-the-job experience. Includes student, employer and coordinator evaluations, on-site work visits, and written assignments. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. Internship is intended for entry level IM students who are working at that level. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. May be repeated for a maximum of 9 credits towards graduation. May be graded Credit/No Credit.

IM 290R
Current Topics in Information Management
1 to 3:0 to 3:0 to 9 On Sufficient Demand

* Prerequisite(s): Departmental Approval

Designed for students interested in specific information management tools and concepts. Includes relevant and changing topics and tools used by business and industry. Emphasizes hands-on experience along with lectures and demonstrations. May be taken for a total of 9 credits toward graduation. Lab access fee of $35 for computers applies.

IM 3500
Desktop Publishing Applications
3:3:0 Spring

* Prerequisite(s): (IM 2100 or Instructor approval) and University Advanced Standing

For administrative information management or administrative information support majors and others interested in learning desktop publishing features. Teaches the use of current desktop publishing software in a Windows environment. Emphasizes production of complex documents for the purpose of publication. Teaches formatting and design principles through the use of theory instruction, demonstration, and hands-on experience. Course fee of $10 for software applies. Lab access fee of $35 for computers applies.

IM 3700
Database Applications
3:3:0 Spring

* Prerequisite(s): Basic keyboarding skill and University Advanced Standing

Explores creating and utilizing database files using database management software. Covers basic concepts of database management emphasizing commonly used applications. Teaches use of reports, letters, labels, custom screens, and queries in a business setting. Course fee of $10 for software applies. Software fee of $15 applies. Lab access fee of $35 for computers applies.

IM 4100
CPS/CAP Review--Office Systems and Technology
2:2:0 On Sufficient Demand

* Prerequisite(s): Instructor approval and University Advanced Standing

For students and others wishing to prepare for the Certified Professional Secretary or the Certified Administrative Professional Examinations administered by International Association of Administrative Professionals. Prepares students to sit for the Office Systems and Technology section of the CPS and CAP exams. Lab access fee of $35 for computers applies.

IM 4110
CPS/CAP Review--Office Administration
2:2:0 On Sufficient Demand

* Prerequisite(s): Instructor approval and University Advanced Standing

For students and others wishing to prepare for the Certified Professional Secretary or the Certified Administrative Professional Examinations administered by International Association of Administrative Professionals. Prepares students to sit for the Office Administration section of the CPS and CAP exams. Lab access fee of $35 for computers applies.

IM 4120
CPS/CAP Review--Management
2:2:0 On Sufficient Demand

* Prerequisite(s): Instructor approval and University Advanced Standing

For students and others wishing to prepare for the Certified Professional Secretary or the Certified Administrative Professional Examinations administered by International Association of Administrative Professionals. Prepares students to sit for the Management section of the CPS and CAP exams. Lab access fee of $35 for computers applies.

IM 4130
CAP--Advanced Organizational Management
2:2:0 On Sufficient Demand

* Prerequisite(s): Instructor Approval and University Advanced Standing

For students and others wishing to prepare for the Certified Professional Secretary or the Certified Administrative Professional Examinations administered by International Association of Administrative Professionals. Prepares students to sit for the Advanced Organizational Management section of the CPS and CAP exams. Lab access fee of $35 for computers applies.

IM 4300
Information Workflow Management
3:3:0 On Sufficient Demand

* Prerequisite(s): IM 2300, Junior Standing, and University Advanced Standing

Emphasizes organization, problem-solving, and critical thinking skills in directing the completion of documents and projects in an automated and integrated environment. Covers a variety of administrative information management activities including planning and organizing new projects; directing new and ongoing operations; and utilizing available technology to process, analyze, manage, and communicate information. Stresses self-motivation, effective decision making, and critical- and creative-thinking skills. Completers should function effectively in the role of an administrative information or business office manager. Course fee of $10 for computers applies. Lab access fee of $35 for software applies.

IM 481R
Internship
1 to 8:0:5 to 40 Fall, Spring, Summer

* Prerequisite(s): Instructor approval and University Advanced Standing

For Information Management majors only. Provides a transition from school-to-work where learned theory is applied to actual practice through a meaningful on-the-job experience. Includes student, employer and coordinator evaluations, on-site work visits, and written assignments. Provides experience in establishing and accomplishing individualized work objectives that improve work performance. Internship is intended for senior IM students who are working at that level. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. May be repeated for a maximum of 9 credits towards graduation. May be graded credit/no credit.

IM 490R
Advanced Topics in Information Management
1 to 3:0 to 3:0 to 9 On Sufficient Demand

* Prerequisite(s): Departmental Approval and University Advanced Standing

Includes relevant and changing topics and tools used by business and industry. Emphasizes hands-on experience. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of $35 for computers applies.

IM 496R
Information Management Seminar
1 to 3:1 to 3:0 to 6 On Sufficient Demand

* Prerequisite(s): IM 2300 and University Advanced Standing

Provides short courses, workshops, and special programs in information management or current business topics. May be repeated for up to 6 credits toward graduation.

IM 497R
Independent Study
1 to 3:1 to 3:0 to 6 On Sufficient Demand

* Prerequisite(s): Instructor Approval and University Advanced Standing

For bachelor's degree students and other interested persons. Offers independent study as directed in reading or in individual projects; offered at the discretion and approval of the department chairperson. May be repeated for a maximum of 9 credits toward graduation.

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Course Descriptions

Information Systems and Technology (INFO)

INFO 1000  
E-Commerce Techniques for Small Business  
3:3:0  Fall  
* Prerequisite(s) or Corequisite(s): Basic Computer Proficiency or IM 1010 strongly recommended

Introduces strategies and best practices for analyzing a target market, designing an online business, and implementing an e-Commerce solution. Discusses online marketing, branding, usability, search engine optimization, personalization, rapid development, theming, and security. Requires implementation of an online small business individually or with a group. Lab access fee of $35 for computers applies.

INFO 1120  
Information Systems and Technology Fundamentals  
3:3:0  Fall, Spring, Summer  
* Prerequisite(s): IM 1010 recommended

Explores the fundamental concepts of information technology and the role played by enterprise systems in business and organizational strategy. Introduces types of systems, computer organization and hardware, operating systems and networking, project planning, software development, computer ethics, and career paths for enterprise developers and IT professionals. Lab access fee of $35 for computers applies.

INFO 1200  
Computer Programming I for IS/IT  
3:3:0  Fall, Spring  
* Prerequisite(s): MAT 1010 or higher; INFO 1120 recommended

Introduces concepts and use of database management systems. Presents the relational model, Structured Query Language, database design including normalization theory, and application development tools using an enterprise level relational database management system. Lab access fee of $35 for computers applies.

INFO 2100  
Computer Proficiency for Technology Professionals  
3:3:0  Fall, Spring  
* Prerequisite(s): (ENGL 1010 or higher) and (MATH 1030 or higher)

For Technology Management and Construction Management students. Provides opportunities for students to gain proficiency in using Microsoft Office (Word, PowerPoint, Excel, and Access) to enhance their business productivity and problem-solving skills. Teaches students to apply information technologies to problem situations. Meets computer proficiency requirement for Technology Management degree. Lab access fee of $35 for computers applies.

INFO 2200  
Computer Programming II for IS/IT  
3:3:0  Fall, Spring, Summer  
* Prerequisite(s): (INFO 1200 or CS 1400 with a grade of C- or better within the past seven years) and MATH 1050 or higher, or Departmental Approval

Introduces object-oriented design and programming methodologies. Teaches students to use inheritance, polymorphism, and encapsulation. Provides students with knowledge to abstract functionality by using interfaces. Covers collection classes, generics, exception handling, file handling, and more advanced topics such as accessing databases via LINQ, socket/network programming, and multi-threading. Lab access fee of $35 for computers applies.

INFO 2410  
Database Fundamentals  
3:3:0  Fall, Spring  
* Prerequisite(s): INFO 1120; INFO 1200 recommended

Introduces database concepts and use of database management systems. Explores the fundamental concepts of information technology and the role played by enterprise systems in business and organizational strategy. Introduces types of systems, computer organization and hardware, operating systems and networking, project planning, software development, computer ethics, and career paths for enterprise developers and IT professionals. Lab access fee of $35 for computers applies.

INFO 2420  
Web Application Design  
3:3:0  Fall, Spring, Summer  
* Prerequisite(s): INFO 1120 recommended or IM 1010 recommended

Focuses on the design and construction of Web pages and maintenance of Web sites. Includes foundations in standards-based HTML and CSS. Covers code markup, design concepts and web graphics manipulation, page layout, form development and validation, and usability and accessibility issues. Teaches use of Web authoring tools for code development and site management. Requires individual projects. May be delivered hybrid and/or online. Course fee of $10 for materials applies. Lab access fee of $35 for computers applies.

INFO 281R  
Internship  
1 to 8:0:5 to 40  On Sufficient Demand  
* Prerequisite(s): Department Approval

Provides opportunities to apply classroom theory on the job. Requires work as paid employees in a job that relates to their careers while enrolled at the College. Students meet at least monthly with the Departmental Internship Coordinator. Completers meet individually set goals. Six credits may be applied toward graduation with an AAS degree and three credits toward certificate programs. May be graded credit/no credit.

INFO 297R  
Independent Study  
1 to 3:0:3 to 9  Not Offered  
* Prerequisite(s): Department Approval

Offers independent study as directed in reading in individual projects. Approval for this course is at the discretion of the department chairperson. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of $35 for computers applies.

INFO 3120  
Management Information Systems  
3:3:0  Fall, Spring, Summer  
* Prerequisite(s): [(MKTG 2200 or ENGL 2010 or ENGL 2020) and (Computer Proficiency or INFO 1120 or IM 1010 with a grade of C- or better within the past five years) or departmental approval] and University Advanced Standing

Introduces the field of information systems and technology. Teaches the general business manager how to use and manage the most current information technologies (IT). Studies the Internet, Intranets, and Extranets for electronic commerce and enterprise collaboration. Examines business cases demonstrating IT contributions to competitive advantage, reengineering business processes, and decision making. May be delivered online. Software fee of $15 applies. Lab access fee of $35 for computers applies.

INFO 3130  
Introduction to Applied Data Analytics  
3:3:0  On Sufficient Demand  
* Prerequisite(s): Basic statistics course (STAT 2050 or MGMT 2340 or MATH 1040 or MATH 2040 or BESC 3010), and basic knowledge of Microsoft Excel, or Departmental Approval and University Advanced Standing

Intended for people who will be working with data analysts and data scientists, managing analytics projects, or investing in analytics ventures, and aspiring data scientists. Provides opportunities for students to gain skills in data-analytic thinking required to succeed in today’s analytical and data-driven economy. Introduces the basics of data management and data analytics. Covers core analytic techniques: data exploration and visualization, pattern discovery (segmentation and association), predictive modeling (decision tree, logistic regression, neural network), and forecasting. Lab access fee of $35 for computers applies.

INFO 3410  
Database Systems and Warehousing  
3:3:0  Fall, Spring, Summer  
* Prerequisite(s): (INFO 2100 or CS 3520 with a grade of C- or higher within the past seven years) and University Advanced Standing

Covers advanced database development topics and introduces a data warehouse model designed especially to support analytics and reporting needs. Database development topics covered include transaction management, performance optimization, data loading, and the development of stored procedures, triggers, and functions. Presents the data warehouse model in contrast to existing operational transaction systems. Analyzes business reporting needs, creates models for data warehouses based on the reporting needs, and uses SQL to create and populate tables based on dimensional models. Lab access fee of $35 for computers applies.
INFO 3420 Web Systems Development 3:3:0 Fall, Spring
* Prerequisite(s): (INFO 2410 and INFO 2420 both with a grade of C- or higher within the past seven years) and University Advanced Standing
* Corequisite(s): INFO 3410 recommended

Provides an introduction to e-business strategy and the development of business solutions and their components using a modern, object-oriented, Web-based application framework. Teaches implementation of SSL security, authentication and role-based authorization, database integration, payment processing, and deployment of an e-business solution. Lab access fee of $35 for computers applies.

INFO 3422 PHP Web Application Development 3:3:0 Spring
* Prerequisite(s): (INFO 1200 or DGM 2760 or CS 2550) and University Advanced Standing

Utilizes open-source technologies to produce interactive Web applications. Provides experience using a powerful, object-oriented scripting language, PHP, combined with an open-source relational database, mySQL, to develop skills needed to effectively administer, develop and secure Internet applications. Lab access fee of $35 for computers applies.

INFO 3426 Web Content Management Systems Site Development 3:3:0 On Sufficient Demand
* Prerequisite(s): INFO 2200 and University Advanced Standing
* Prerequisite(s) or Corequisite(s): INFO 3422

Studies the use of content management systems (CMS) to allow web publishers to instantly and dynamically update web pages and properties as new content becomes available so that every visit to a site is engaging, informative, and meaningful. Explores the use of the some of most popular web-based content management systems (such as Wordpress, Joomla, and Drupal) to create dynamic and flexible websites and landing pages. Explores the fundamentals of planning dynamic websites, CMS database management, developing CSS-controlled site templates, and creating database-driven websites through the planning and creation of their own topic-based sites. Lab access fee of $35 for computers applies.

INFO 3430 Systems Analysis and Design 3:3:0 Fall, Spring, Summer
* Prerequisite(s): (INFO 2410 and INFO 2420 each with a grade of C- or higher within the past seven years) and (MKTG 2200 or ENGL 2310) and University Advanced Standing; INFO 3120 recommended

Introduces the systems development life cycle with a focus on systematic planning; requirements, process, and data analysis; and an overview of the design phase. Covers fundamental principles, effective processes, and techniques of project management, including scheduling and project control. Covers appropriate methodologies, tools, diagrams, and techniques for systems analysis, design, and project management. Requires working in teams to complete and present the first planning and analysis phases of a project for a client. Should be taken in the end of the junior year or first semester of the senior year. Lab access fee of $35 for computers applies.

INFO 3700 Health Informatics Fundamentals 3:3:0 Fall, Spring
* Prerequisite(s): (INFO 3120 or Department Approval) and (ENGL 2010 or ENGL 2200) and University Advanced Standing

Introduces the concepts, practices and ethics of health informatics. Includes a survey of current health care information systems, such as electronic health records, practice management systems, patient portals, consumer health informatics, disease registries, e-prescribing, telemedicine, and public health informatics. Surveys health care information exchange and related standards and classification systems used to implement interoperable computer-based patient records. Examines privacy and security measures, such as HIPPAA, HITECH Act, and Meaningful Use and how they are related to data security, privacy and public perception. Lab access fee of $35 for computers applies.

INFO 3750 Healthcare Information Systems Applications 3:3:0 Spring
* Prerequisite(s): ([INFO 1200, INFO 2410, INFO 2420, INFO 3700 all with a grade of C- or higher within the past seven years] or Department Approval for Nursing and Health majors) and University Advanced Standing

Provides pragmatic coverage of the topics and resources relevant to health informatics. Exposes students to real-world examples and skills related to the acquisition, representation, management, analysis, and use of different types of HIS data. Emphasizes issues such as standardization, security, and handling unstructured data. Includes assignments, a course project, and hands-on experience in applying informatics solutions in health care settings. May be delivered hybrid. Lab access fee of $35 for computers applies.

INFO 405G Global Ethical and Professional Perspectives in IS and IT 3:3:0 Fall, Spring, Summer
* Prerequisite(s): (INFO 3120 or INFO 3430) and University Advanced Standing

Examines professional and ethical issues within the information systems and information technology fields with a global perspective. Covers ethical and legal issues IT professionals face dealing with computer and cybercrimes, privacy issues, freedom of expression, intellectual property, software development including risk analysis, and social networking. Includes career professional development through resumes, cover letters, and job interviews specific to information systems and technology. Focuses on global networked readiness, digital highways, and challenges that information technology organizations face. Meets the G1 requirement at UVU. May be delivered hybrid. Lab access fee of $35 for computers applies.

INFO 4120 Business Intelligence Systems 3:3:0 Fall, Spring
* Prerequisite(s): INFO 3120 and University Advanced Standing; INFO 2410 recommended

Focuses on extracting business intelligence from large data sets for various applications including reporting and predictive analytics in multiple domains including web analytics and business analytics to aid decision-making processes. Provides hands-on experience with a variety of decision support analytics software and access to a sophisticated data warehouse for multidimensional online analytical processing (OLAP). Emphasizes how to extract and apply business intelligence to improve business decision making. Lab access fee of $35 for computers applies.

INFO 4130 Data Science and Big Data Analytics 3:3:0 Spring
* Prerequisite(s): INFO 4120 and (STAT 2050 or MGMT 2340) and University Advanced Standing

Capstone course extends the concepts of analytics to the analysis of large data-sets, and preparation of analysis reports and presentations describing implications of findings. Uses modern tools such as SAS and R for advanced analytics and Hadoop for big data. Covers the theory and methods of advanced data analytics such as clustering, association, decision trees, time series, and text analysis. Hands-on application using a big data lifecycle lab. Software fee of $15 applies. Lab access fee of $35 for computers applies.

INFO 4135 Data Security Analytics 3:3:0 Fall
* Prerequisite(s): IT 2700, INFO 3410, INFO 4120, and University Advanced Standing

Introduces students to the concept of data analytics as applied to cyber security. Topics include collection, aggregation, data mining, and analysis of various data sources. Emphasis is placed on utilizing data analytics tools that correlate data in order to identify security events that may go undiscovered by traditional detection and log analysis methods. Lab access fee of $35 for computers applies.

INFO 4410 Database Administration 3:3:0 Fall
* Prerequisite(s): (INFO 3410 or CS 3520) and University Advanced Standing

Introduces students to the database administration tasks and tools of a Relational Database Management System (DBMS). Topics include the core areas of installation and configuration, management for high availability, database maintenance using tools and utilities, troubleshooting database performance, and creating and implementing database objects, such as tables, users, stored procedures, and functions. Hands-on assignments provide students with opportunities to apply the knowledge gained in the course to a popular commercial database management system. Lab access fee of $35 for computers applies.
INFO 4415 Database Security and Auditing
3:3:0 Spring
* Prerequisite(s): (INFO 3410 or IT 3700) and University Advanced Standing

Utilizing theory, scenarios, and step-by-step examples, this course provides a strong foundation in database security and auditing. Covers the following topics in depth: the importance of database security in contemporary business environments; Security; Profiles; Password policies, privileges and roles; Virtual Private Databases; Auditing; SQL injection; Database management security issues. Lab access fee of $35 for computers applies.

INFO 4420 Mobile Business Application Development
3:3:0 Fall
* Prerequisite(s): INFO 2420, and University Advanced Standing; INFO 2200 recommended

Introduces students to mobile computing applications, focusing on current technology. Teaches students how to use JavaScript and CSS to create web applications for mobile platforms. Prepares students to convert Web-based applications to run natively on mobile platforms. Lab access fee of $35 for computers applies.

INFO 4422 Advanced PHP Web Application Development
3:3:0 On Sufficient Demand
* Prerequisite(s): INFO 3422 and University Advanced Standing

Develops skills of experienced PHP Programmers by introducing advanced techniques, tools, and methodologies that can be used to build complex, scalable, PHP applications. Covers the Object Oriented components of PHP. Covers how programmers can leverage common design patterns to build loosely coupled objects and further extend the flexibility of their applications. Lab access fee of $35 for computers applies.

INFO 4425 Web Application Security
3:3:0 Spring
* Prerequisite(s): IT 2700, INFO 3420, and University Advanced Standing

Examines web application vulnerabilities and remediation techniques. Explores various tools and techniques used to perform web application assessments. Topics include cross-site scripting, SQL injection, session management, and web server configuration. Emphasis is placed on practical skills developed through extensive hands-on exercises. Lab access fee of $35 for computers applies.

INFO 4430 Systems Design and Implementation
3:3:0 Fall, Spring, Summer
* Prerequisite(s): INFO 3430 and University Advanced Standing

Continuation of INFO 3430. Focuses on the design and implementation of an information system using an agile, iterative development approach. Utilizes self-organizing teams that will deliver working software with ongoing customer collaboration. Introduces use of a source control system to manage code base, an agile project management tool, and encourages continuous integration practices. Requires that students work in teams to complete and present a working system of a project for a client. Lab access fee of $35 for computers applies.

INFO 4440 Enterprise Computing Environments
3:3:0 Spring
* Prerequisite(s): ACC 2020 and (INFO 3120 or TECH 4420) and University Advanced Standing

Introduces students to Enterprise Computing Environments. Focuses particularly on the configuration and information processing capabilities of e-commerce systems and Enterprise Resource Planning (ERP) systems. Requires students to install, configure, and customize the Magento ecommerce system, and to manage master data. Introduces both Microsoft Dynamics and the SAP ERP system. Uses SAP and Dynamics to demonstrate how enterprise software supports business processes such as order processing, materials requirements management, shipping, invoicing, and purchasing. Requires students to configure a fictional business using the SAP ERP system. May be delivered hybrid. Software fee of $15 applies. Lab access fee of $35 for computers applies.

INFO 4550 Senior Project
3:3:0 On Sufficient Demand
* Prerequisite(s): INFO 3430 and University Advanced Standing

Involves the implementation of a significant information system or information technology project. Requires students to work in teams to design and develop a working information system or information technology solution for a community client. Culminates in a presentation of the completed project by project developers to project stakeholders, interested faculty, and administration. Lab access fee of $35 for computers applies.

INFO 459R Current Topics in Information Systems
3:3:0 Fall
* Prerequisite(s): (Junior Standing or Department Approval) and University Advanced Standing

Provides exposure to emerging technologies and topics of current interest in information systems. Varies each semester depending upon the changes in the information systems discipline or to address a focused area within the information systems discipline. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of $35 for computers applies.

INFO 4700 Healthcare Information Systems Management
3:3:0 Fall
* Prerequisite(s): [(INFO 3120 and INFO 3700) or (Department Approval for Nursing or Health majors)] and University Advanced Standing

Overviews business practices related to health care information systems. Augments the study of the science of health information with an exposure to the practices whereby health care organizations set goals and objectives, design and implement IT solutions, manage the IT function and organization, and develop technology capital and operating budgets. Presents current best practices of the business of health informatics, drawn from industry journals and business analysis consultants. Covers the management aspects of the legal and ethical issues related to HIS including applying laws related to confidentiality and data security. Lab access fee of $35 for computers applies.

INFO 481R Internship
1 to 8:0:5 to 40 Fall, Spring, Summer
* Prerequisite(s): INFO 3410, INFO 3420, INFO 3430, Department Approval, and University Advanced Standing

For Information Systems bachelor's degree students. Provides opportunities to apply classroom theory while students work as employees in a job that relates to their careers. Meet periodically with a Departmental Internship Coordinator. Credit is determined by the number of hours a student works during the semester and completion of individually set goals that relate to the student's selected emphasis. Prior written department chair approval is required to apply more than three credits toward a Bachelor of Science Degree in Information Systems. May be graded credit/no credit.

INFO 489R Undergraduate Research in Information Systems
1 to 4:0:5 to 20 On Sufficient Demand
* Prerequisite(s): Department approval and University Advanced Standing

Provides the opportunity to conduct research under the mentorship of a faculty member. Practices the theoretical knowledge gained in prior major courses. Creates a significant intellectual or creative product that is characteristic of the Information Systems discipline and worthy of communication to a broader audience. May be repeated for a maximum of 6 credits toward graduation.

INFO 497R Independent Study
1 to 3:0:3 to 9 On Sufficient Demand
* Prerequisite(s): Department chair approval and University Advanced Standing

For bachelor's degree students and other interested persons. Offers independent study as directed in reading, in individual projects, at the discretion and approval of the department chairperson. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of $35 for computers applies.

Integrated Studies (IS)

IS 300R Introductory Topics in Integrated Studies
3:3:0 Fall, Spring, Summer
* Prerequisite(s): (PHIL 2050 or 205H or 205G) and (ENGL 2010 or 2020 or 201H or 202H) and University Advanced Standing

Introduces a variety of topics crossing disciplines in science, religion, philosophy, history, literature, business, technology and the arts. Topics vary from semester to semester, but course remains modular in structure. Research and writing intensive. Requires final research paper. Involves writing across the curriculum. May be repeated for a maximum of 12 credits toward graduation. May be delivered hybrid.
Information Technology (IT)

IT 1510
Introduction to System Administration--Linux/UNIX
3:3:0 Fall, Spring, Summer
* Prerequisite(s): INFO 1120 recommended
Introduces the UNIX Operating System using the popular Linux OS. Explores the Linux file system, Linux administration, OS utilities, and program features and uses. Aids the student in the development, understanding, and working knowledge of the details of the Linux Operating System, memory organization, disk architectures, and demand paged virtual memory. Includes OS installation, user creation, rights management, loading daemons, and server best practices. Lab access fee of $35 for computers applies.

IT 1600
Computer Architecture and Systems Software
3:3:0 Fall, Spring, Summer
* Prerequisite(s): INFO 1120 recommended
Provides a thorough grounding in computer hardware, system software, and contemporary information system architecture. Examines hardware structure, operating systems theory, and systems software as part of a technical foundation for enterprise systems development and IT infrastructure procurement and management. Lab access fee of $35 for computers applies.

IT 2400
Voice and Data Cabling Fundamentals
3:3:0 Fall, Spring, Summer
* Prerequisite(s): INFO 1120 or INFO 1200 or CS 1030 or CS 1400
For students interested in the physical aspects of voice and data network cabling and installation. Focuses on cabling issues related to data and voice connections and provides an understanding of the industry and its worldwide standards. Covers types of media and cabling, physical and logical networks, as well as signal transmission. Focuses on best practices and safety using copper and fiber-optic cabling. Requires students to install a complete cable infrastructure for a simulated telecommunications room.Enforces industry and worldwide standards. Requires a community project and portfolio based on voice/data cabling skills. Lab access fee of $35 for computers applies. Course fee of $188 for materials applies.

IT 2530
Introduction to System Administration--Windows Client
3:3:0 Fall, Spring
* Prerequisite(s): IT 1600
Introduces operation management of operating systems using Microsoft Windows. Introduces installation methods and troubleshooting, hardware device installation and management, storage management, disaster recovery planning and management. Aids the student in the development, understanding, and working knowledge of the Windows networking framework including peer-to-peer, workgroups, user profiles, domains, NTFS, and share-level permissions. May be delivered hybrid. Lab access fee of $35 for computers applies.

IT 2600
Data Communication Fundamentals
3:3:0 Fall, Spring, Summer
* Prerequisite(s): INFO 1120 and (INFO 1200 or IT 1600)
Provides an in-depth knowledge of data communications and enterprise networking including networking and telecommunications technologies, hardware, and software. Emphasizes underlying technologies and protocols. Design topics include wired and wireless architectures; topologies, models, standards and protocols; and operation of bridges, routers, switches, and gateways. Includes lab assignments covering TCP/IP implementations. May be delivered hybrid. Lab access fee of $35 for computers applies.

IT 2700
Information Security Fundamentals
3:3:0 Fall, Spring
* Prerequisite(s): IT 2600 or CS 2600; (IT 1600 recommended)
Explores current standards of due care and best business practices in Information Security through an examination of security technologies, methodologies and practices. Emphasizes evaluation and selection of an optimal security posture. Topics include evaluation of security models, risk assessment, threat analysis, attack types, encryption technologies, organizational technology evaluation, security implementation, disaster recovery planning, and security policy formulation and implementation. Includes lab assignments covering information security principles. Software fee of $8 applies. Lab access fee of $35 for computers applies.

IT 2800
Computer Forensic Fundamentals
3:3:0 Fall, Spring
* Prerequisite(s): IT 2600 or CS 2600 or CJ 1010
Explores procedures for identification, preservation, and extraction of electronic evidence. Emphasizes auditing and investigation of network and host system intrusions, analysis and documentation of information gathered, and preparation of expert testimonial evidence. Examines forensic tools and resources for system administrators and information system security officers. Includes ethics, law, policy, and standards concerning digital evidence. Requires lab experience and a research paper or project. Lab access fee of $35 for computers applies. Software fee of $50 applies.

IT 290R
Current Topics in Information Technology
1 to 3:1 to 3:0 On Sufficient Demand
* Prerequisite(s): Departmental Approval
Provides exposure to current and emerging information technologies. May be used to provide content to prepare students to take industry-recognized IT certification exams, such as CompTIA Linux+, CompTIA A+, Apple Certified Professional, Certified Fiber Optic Technician, IC3, CompTIA Network+, CompTIA CTP+, Access Data Certified Examiner, MCSD, Cisco CompTIA Security+, Certified Ethical Hacker, etc. Varies each semester. May be repeated for a maximum of 6 credits toward graduation. Lab access fee of $35 for computers applies.
Course Descriptions

IT 3400
Data Cabling Signal Characteristics
3:3:0 On Sufficient Demand
* Prerequisite(s): INFO 1120 or INFO 1200 or CS 1030 or CS 1400 or MECH 1200

For EART/Mechatronics majors or students interested in the physical aspects of data network signal characteristics, cabling and installation for those signals. Focuses on cabling issues related to data and voice connections and provides an understanding of the industry and its worldwide standards. Covers types of media and cabling, physical and logical networks, as well as signal transmission. Focuses on best practices and safety using copper and fiber-optic cabling. Requires students to install a complete cable infrastructure for a simulated telecommunications room. Enforces industry and worldwide standards. Requires a community project and portfolio based on voice/data cabling skills. Requires a research paper.

IT 3510
Advanced System Administration--Linux/UNIX
3:3:0 Fall, Spring
* Prerequisite(s): [INFO 1200 and IT 1510 and (IT 2600 or CS 2600) all with a grade of C- or higher within the past five years] and University Advanced Standing

Explores enterprise systems administration using the UNIX/Linux operating system. Students learn advanced administrative tasks including server installation, network configuration and user management, file management, network services deployment, server security, back up and recovery, Shell scripting, source compilation, performance monitoring and tuning, troubleshooting, and managing hardware and component changes. Requires a community project and portfolio based on advanced server management skills. Lab access fee of $35 for computers applies.

IT 3530
Advanced System Administration--Windows Server
3:3:0 Fall, Spring, Summer
* Prerequisite(s): [INFO 1200 and IT 2530 and (IT 2600 or CS 2600) all with a grade of C- or higher within the past five years] and University Advanced Standing

Explores enterprise systems administration using the Microsoft Windows Server operating system. Students learn advanced administrative tasks including server installation; hardware change management; software application management; network configuration and user management; file management; printing; network services deployment; server security; back up and recovery; scripting; performance monitoring, tuning, and troubleshooting. May be delivered hybrid. Lab access fee of $35 for computers applies.

IT 3540
Mac OS and Server Support
3:3:0 Fall, Spring, Summer
* Prerequisite(s): [INFO 1200 and IT 1510 and (IT 2600 or CS 2600) all with a grade of C- or higher within the past five years] and University Advanced Standing

Provides an in-depth exploration of the Mac OS X, and provides the skills to troubleshoot and correct problems that may arise by users. Teaches installation and configuration of a Mac OS X Server. Involves implementing and maintaining a Mac server in a network, including file sharing, mail, web, and wikis. Software fee of $30 applies. Lab access fee of $35 for computers applies.

IT 3600
Internetworking and Router Management
3:3:0 Fall, Spring, Summer
* Prerequisite(s): INFO 1200 and (IT 2600 or CS 2600) and University Advanced Standing

Teaches the theory and implementation skills and techniques needed to configure, troubleshoot and support reliable TCP/IP internetworks. Discusses security and management issues. Offers the opportunity to build an internetwork with cables, network cards, and routers. Emphasizes the analysis and design of networks in organizations. Includes lab assignments covering TCP/IP implementations and router configurations. Course fee of $25 for materials applies. Lab access fee of $35 for computers applies.

IT 3650
Information Storage and Management
3:3:0 Spring
* Prerequisite(s): IT 1600, IT 2600, and University Advanced Standing

Presents concepts, principles, and deployment considerations across all technologies that are used for storing and managing information. Describes challenges and solutions for data storage and data management, intelligent storage systems, and storage networking. Studies backup, recovery, and archive processes. Discusses business continuity, disaster recovery, storage security and virtualization, and managing and monitoring the storage infrastructure. Software fee of $192 applies. Lab access fee of $35 for computers applies.

IT 3700
Information Security--Network Defense and Countermeasures
3:3:0 Fall, Spring
* Prerequisite(s): IT 1510, IT 2700, (IT 3510 or IT 3530), and University Advanced Standing
* Prerequisite(s) or Corequisite(s): IT 3600

Examines advanced information security concepts through an applied viewpoint. Extends the student's understanding of security issues through hands-on application of real-world techniques and use of current security software. Topics include legal/ethical issues, use of security tools, network reconnaissance, password/brute-force attacks, firewall configuration, Honeynet deployment, intrusion analysis/detection, server hardening, and penetration testing. Guest lecturers provide insight into current trends in advanced security issues. Software fee of $9 applies. Course fee of $20 for security equipment applies. Lab access fee of $35 for computers applies.

IT 459R
Current Topics in Information Technology
3:3:0 On Sufficient Demand
* Prerequisite(s): (Junior Standing or Department Approval) and University Advanced Standing

Provides exposure to emerging technologies and topics of current interest in information technology. Varies each semester depending upon the changes in the information technology discipline or to address a focused area within the information technology discipline. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of $35 for computers applies.

IT 4600
Enterprise Architectures and Virtualization
3:3:0 Fall, Spring
* Prerequisite(s): IT 1510, IT 3600, and University Advanced Standing

Examines management of resources used in enterprise computing environments from a practical, applied viewpoint. Extends the student's understanding of these concepts through hands-on application of real-world network, server, and software management techniques and addresses the problems associated with providing a secure, stable, reliable enterprise computing infrastructure. Topics include principles of IT enterprise infrastructure management; configuration, analysis, and troubleshooting of virtual servers; redundancy and failover; directory service integration; access control and security; uptime monitoring and notification; backup and recovery; Storage Area Networking; Cloud computing platform choices; functionality, cost, deployment, flexibility, and adaptability. Lab access fee of $35 for computers applies.

IT 4700
Enterprise Information Security Management
3:3:0 Fall, Spring
* Prerequisite(s): [IT 3700 and (IT 3510 or IT 3530 or IT 3540)] or [IT 2700 and (INFO 4415 or INFO 4425)] and University Advanced Standing

Provides perspective of key issues involved in IT activities across the server, network, and security landscape. Examines management methodologies, staffing, and operational issues. Teaches use of financial analysis and decision-making methodologies to aid investment decisions at the operational, tactical, and strategic levels. Illustrates use of risk assessment and contingency planning as applied to business continuity and disaster recovery strategies. Includes the use of Service Level Agreement for managing both internal and external relationships. Lab access fee of $35 for computers applies.

IT 4750
Network Security and Operations Capstone
3:3:0 Spring
* Prerequisite(s): IT 3700 or [IT 3510 or IT 3530 or IT 3540] or [IT 2700 and (INFO 4415 or INFO 4425)] and University Advanced Standing

Senior-level, capstone experience course. Enhances student cyber security knowledge with operational and business applications. Focuses on integrating cyber security principles as an organic part of an organization's processes. Covers barriers to implementing security policy, building a business case for cyber security, and incorporating cyber security into project management and software life cycles. Requires student project presentations. Lab access fee of $35 for computers applies.
IT 4760  
Case Studies in Cyber Security  
3:3:0 Spring  
* Prerequisite(s): IT 2700 and University Advanced Standing  

Discusses current trends and issues in cyber security. Updated regularly to reflect global events related to cyber security. Topics include data breaches, cyber warfare, emerging threats. Emphasis on the changing and transformative nature of cyber security threats, including geographical, institutional, and cultural evolution. Guest lecturers from industry will provide students with perspectives on the state of cyber security. Examines real-world examples of the application of cyber security principles and requires critical analysis of each case. Lab access fee of $35 for computers applies.

IT 4800  
Advanced Mobile Devices Forensics  
3:3:0 Spring  
* Prerequisite(s): (IT 2800 or CJ 3800) and University Advanced Standing; IT 3540 recommended  

A continuation of IT 2800. Teaches students about additional devices that can store digital information. Exposes students to devices such as cell phones, PDAs, MP3 players, digital camera/camcorders, and network servers. Includes a complete lab investigation of one or more digital media through image acquisition, data recovery, and assembly of a final written report of findings. Requires participation in at least one mock deposition or trial testimony and cross examination. Includes weekly written papers covering topics in the field of digital forensics. Lab access fee of $35 for computers applies. Software fee of $130 applies.

IT 481R  
Internship  
1 to 8:0:5 to 40 Fall, Spring, Summer  
* Prerequisite(s): (IT 3510 or IT 3530 or IT 3540 or IT 3600 or IT 3700 or department approval) and University Advanced Standing  

For Information Technology bachelor's degree students. Provides opportunities to apply upper-division classroom theory while students work as employees in a job that relates to their careers. Meet periodically with a Departmental Internship Coordinator. Credit is determined by the number of hours a student works during the semester and completion of individually set goals that relate to the student's selected emphasis. Prior written department chair approval is required to apply more than three credits toward a Bachelor of Science Degree in Information Technology. May be graded credit/no credit.

IT 4850  
Digital Forensics Investigations  
3:3:0 Fall  
* Prerequisite(s): IT 4800 and University Advanced Standing  
  
* Prerequisite(s) or Corequisite(s): FSCI 3400, FSCI 3880  

Senior Capstone course for students in the Computer Forensics emphasis. Covers one or more investigations from start to finish. Integrates knowledge and skills from previous CJ, FSCI, and IT courses in this culminating experience. Lab access fee of $35 for computers applies. Software fee of $100 applies.

IT 489R  
Undergraduate Research in Information Technology  
1 to 4:0:5 to 20 On Sufficient Demand  
* Prerequisite(s): Department approval and University Advanced Standing  

Provides the opportunity to conduct research under the mentorship of a faculty member. Practices the theoretical knowledge gained in prior major courses. Creates a significant intellectual or creative product that is characteristic of the Information Technology discipline and worthy of communication to a broader audience. May be repeated for a maximum of 6 credits toward graduation.

IT 497R  
Independent Study  
1 to 3:0:3 to 9 On Sufficient Demand  
* Prerequisite(s): Department chair approval and University Advanced Standing  

For bachelor degree students and other interested persons. Offers independent study as directed in reading, in individual projects, at the discretion and approval of the department chairperson. May be repeated for a maximum of 9 credits toward graduation.

IT 5700  
Principles of Cyber Security  
3:3:0 Fall  
* Prerequisite(s): Acceptance into Graduate Certificate in Cyber Security or Instructor Approval  

Provides foundational knowledge of cyber security for graduate level studies. Covers information security theories, terminology, and implementation. Topics include networking and system fundamentals, cryptography, malware, authentication, authorization, access control, physical security, attacker profiles, appropriate threat responses, and the human elements of cyber security. Introduces students to multiple aspects of cyber security and various career paths within the field. May be delivered hybrid. Lab access fee of $35 for computers applies.

IT 5710  
Cyber Security Operations  
3:3:0 Fall  
* Prerequisite(s): Acceptance into Graduate Certificate in Cyber Security or Instructor Approval  
  
* Prerequisite(s) or Corequisite(s): IT 5700  

Focuses on operational aspects of cyber security. Topics include incident response, network monitoring, change management, configuration management, and resource protection. Emphasis is placed on the role of cyber security in the enterprise. Teaches students to integrate sound cyber security principles into various aspects of IT operations. Includes information on secure server administration and open source security software. Teaches cyber security standards for government and industry sources and the application of those standards. May be delivered hybrid. Lab access fee of $35 applies.

IT 5750  
Law, Ethics, and Privacy in Cyber Security  
3:3:0 Fall  
* Prerequisite(s): Acceptance into Graduate Certificate in Cyber Security or Instructor Approval  
  
* Prerequisite(s) or Corequisite(s): IT 5700  

Explores legal, ethical, and privacy issues as they apply to cyber security. Topics include the legalities and ethics of hacking, corporate information security and use policies, and the government’s role in cyber security. Emphasis will be placed on the roles and responsibilities of individual cyber security practitioners as well as corporate entities, including vulnerability disclosure and correcting software defects. Teaches privacy policies and regulations as they relate to cyber security and information systems. May be delivered hybrid. Lab access fee of $35 for computers applies.

IT 6740  
Advanced Network Defense and Countermeasures  
3:3:0 Spring  
* Prerequisite(s): Acceptance into Graduate Certificate in Cyber Security or Instructor Approval  

Explores advanced topics in ethical hacking, penetration testing, vulnerability assessment, and network and system defense techniques. Students will learn network scanning, target identification, application exploitation and vulnerabilities, server hardening, antivirus evasion, physical security, social engineering, phishing, and privilege escalation. Contains hands-on labs providing experience from the perspective of both attacker and defender. Lab access fee of $35 for computers applies.

IT 6760  
Case Studies in Cyber Security  
3:3:0 Spring  
* Prerequisite(s): Acceptance into Graduate Certificate in Cyber Security or Instructor Approval  
  
* Prerequisite(s) or Corequisite(s): IT 5700  

Discusses current trends and issues in cyber security. Course is updated regularly to reflect global events related to cyber security. Topics include data breaches, cyber warfare, emerging threats. Emphasis on the changing and transformative nature of cyber security threats, including geographical, institutional, and cultural evolution. Guest lecturers from industry will provide students with perspectives on the state of cyber security. Examines real-world examples of the application of cyber security principles and requires critical analysis of each case. Lab access fee of $35 for computers applies.

IT 6770  
Cyber Security Management  
3:3:0 Spring  
* Prerequisite(s): IT 5700 or instructor approval  

Teaches management skills applicable to cyber security. Topics include governance models, business continuity, disaster recovery, risk management, organizational security, cyber security life cycle management, and interactions between information technology and business units. Develops cyber security programs with policies, procedures, and guidelines based on industry and government standards to fulfill legal, regulatory, and operational requirements. Lab access fee of $35 for computers applies.
Japanese (JPNS)

JPNS 1010
Beginning Japanese I
4:4:1
Fall

Writing and reading Hiragana and Katakana, listening, speaking in the basic grammar structure, expressing opinions and describing things in a limited situation. Lab access fee of $10 applies.

JPNS 1020
Beginning Japanese II
4:4:1
Spring
* Prerequisite(s): Students need equivalent knowledge of JPNS 1010

Reviews and builds further language skills upon the grammar, reading, writing, and conversation skills learned in the first year courses. Lab access fee of $10 applies.

JPNS 115R
Japanese Conversation I
1:1:0

Offers novice Japanese speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen listening comprehension for natural conversational flow. Constraints with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

JPNS 1500
The Art of Japanese Calligraphy
2:2:0
Fall, Spring

Introduces the origin of the art of calligraphy, the reasons why calligraphy developed and became so popular in Japan, works done by famous calligraphers, how to handle a brush and India ink, and how to write letters with a brush. Demonstrates the proper usage of the brush, correct stroke orders, and develops the skills of writing letters (start from level 1- easy to level 8- difficult) with a brush.

JPNS 2010
Intermediate Japanese I
4:4:1
Fall
* Prerequisite(s): Students need equivalent knowledge of JPNS 1020

Reviews and builds further language skills upon the grammar, reading, writing, and conversation skills learned in the first year courses. Lab access fee of $10 applies.

JPNS 201G
Intermediate Japanese II
4:4:1
Spring
* Prerequisite(s): Students need equivalent knowledge of JPNS 2010

Reviews and builds further language skills upon the grammar, reading, writing (including Kanji knowledge), and conversation skills learned in the previous JPNS 1010, 2010, and 2010. Introduces reading of a variety of texts in Japanese. Lab access fee of $10 applies.

JPNS 211R
Conversational Japanese
2:2:0
On Sufficient Demand
* Prerequisite(s): Students need equivalent knowledge of JPNS 1020

Emphasizes conversation in different real-life situations. Focuses on related vocabulary and structures. Introduces a variety of readings and multimedia materials and promotes oral proficiency. A maximum of four hours may apply toward graduation. Recommended to be taken simultaneously with JPNS 215R or JPNS 221G. Lab access fee of $10 applies.

JPNS 215R
Japanese Conversation II
1:1:0
* Prerequisite(s): Students should have equivalent knowledge of JPNS 2010

Offers lower division / novice Japanese speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Constraints with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

JPNS 3015
Advanced Japanese Conversation
1:1:0
* Prerequisite(s): JPNS 202G or one year residency in a Japanese-speaking country, or instructor approval. University Advanced Standing.

Offers speaking opportunities to middle or upper division Japanese learners to enhance their speaking proficiency in high level language by focusing on oral and verbal production. Improves authentic pronunciation, reduces grammatical and structural errors, and aids student progression beyond translation to natural production.

JPNS 3050
Advanced Japanese
3:3:0
Spring
* Prerequisite(s): JPNS 202G, one year residency in Japan, or instructor approval

For non-native Japanese speakers who have attained a fairly good mastery of basic Japanese and some Kanji reading skills. Focuses on the development of all language skills with emphasis on grammar review, reading and writing. Overviews Japanese culture and introduces Japanese literature. Lab access fee of $10 applies.

JPNS 3200
Business Japanese
3:3:0
On Sufficient Demand
* Prerequisite(s): JPNS 3050 and University Advanced Standing


JPNS 3520
Society and Business in Japan
3:3:0
On Sufficient Demand
* Prerequisite(s): JPNS 3050 and University Advanced Standing

Builds upon the knowledge acquired in JPNS 3200, explores a multitude of aspects that contribute to Japanese national identity, focuses on Japan's complex vertical society, considers the intricacies of Japanese expressions and meanings relative to business and social applications, and studies the Japanese values and priority system. Also references Japan's national and global economic involvement and ways students can interface with it.
Languages (LANG)

LANG 1000  LH  English Literacy for Deaf Students  5:5:0  On Sufficient Demand
* Prerequisite(s): Deaf students fluent in American Sign Language
Individually tailored English course taught entirely in ASL. Covers a variety of topics to prepare Deaf students for entrance to courses satisfying college English requirements. Topics of study, which vary by semester and by student need, include grammar, usage, reading comprehension and analysis, sentence construction, paragraph composition, and thematic approaches to writing. Uses students’ experience with American Sign Language and Deaf culture as the basis for instruction in English as a Second Language.

LANG 281R  LH  Language Internship  1 to 8:0  5 to 40  On Sufficient Demand
* Prerequisite(s): Department approval
Provides supervised, practical, and professional experience for students preparing for careers related to languages. May be repeated for a maximum of eight credit hours. May be graded credit/no credit.

LANG 291R  LH  Independent Study  1 to 3:0  2 to 12  On Sufficient Demand
* Prerequisite(s): Departmental approval
Designed primarily for students who will travel or live in a foreign country for a period of time and want to participate in an instructor-directed academic experience worthy of one to three hours of credit. May also be used similarly for directed studies, either on or off campus, dealing with a foreign language or culture.

LANG 3000  Cross-listed with: ANTH 3000  LH  Language and Culture  3:3:0  Fall, Spring, Summer
* Prerequisite(s): ENGL 1010, [ANTH 101G or any foreign language 2010 course], Sophomore status, and University Advanced Standing
Introduces cultural linguistics. Analyzes features of human languages that make possible semantic universality. Examines distinction between phonetic and phonemic units. Explores relationship between language and culture. Studies how language shapes culture and how culture shapes language. May be delivered online.

LANG 3010  LH  Introduction to Linguistics  3:3:0
* Prerequisite(s): University Advanced Standing
Focuses on achieving an understanding of language as a group of distinct yet complementary systems which interact to enable human communication, e.g., phonology, morphology, syntax, semantics, and pragmatics. Introduces implications of how languages reflect the cultures in which they are used, and discusses how language is learned, processed and interpreted and how languages change over time.

LANG 312R  Cross-listed with: CINE 312R  National Cinema History  3:2:3
* Prerequisite(s): ENGL 2010 and University Advanced Standing
Covers a single national cinema tradition from the early days of film to the present. Explores representative films from a nation's cinematic chronology, considering major themes, movements, controversies, and artists. Considers social and political contexts as related to the national film output. May be repeated for a maximum of 9 credits toward graduation.

LANG 4200  Methods of Teaching a Foreign Language  3:3:0  Fall
* Prerequisite(s): (Matriculation into any secondary education bachelor degree program or departmental approval) and University Advanced Standing
For those who plan to certify to teach a foreign language. Addresses learning approaches, methods, evaluation procedures, text analysis, and other techniques for teaching and evaluating language learning. Includes discussion about professional organizations and other resources in the field. Taught entirely in English.

LANG 450R  Translation Technology  3:3:0
* Prerequisite(s): [CHIN 3050 or FREN 3050 or GER 3050 or JPN 3050 or PORT 3050 or RUS 3050 or SPAN 3050] and University Advanced Standing
Provides the environment for students to enlarge vocabulary and acquire speed and proficiency in translation. Prepares students and translators of any language to obtain an SDL TRADOS Certification. Allows students to become proficient in the use of SDL TRADOS, the cutting edge technology in translation software. May be repeated for a maximum of 9 credits upon demand to provide training for the SDL TRADOS Certification Level 2 and 3.

LANG 481R  Language Internship  1 to 8:0  5 to 40  On Sufficient Demand
* Prerequisite(s): Departmental Approval and University Advanced Standing
Provides students real-world, closely-supervised work experiences in positions directly related to their language studies. Includes a theoretical component such as, but not limited to, papers, projects, completion of reading assignments, tests, journaling, field studies, etc. Students desiring to do language internships must get department approval and must meet with a faculty sponsor to determine individual credit hours and requirements. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

LANG 490R  Special Topics in Languages  1 to 3:1  2 to 3
* Prerequisite(s): Department Approval and University Advanced Standing
Provides an opportunity to undertake a well-defined project or academically rigorous independent research in languages. May include formal instruction and collaboration with faculty and other students. May be repeated for a total of 6 credits toward graduation.

Latin (LATN)

LATN 1010  Beginning Latin I  4:4:0  Fall
* Prerequisite(s): LATN 1010 or equivalent.
Allows students the opportunity to study Latin at the introductory level. Focuses primarily on Ancient Latin. Develops basic Latin reading skills with the help of grammar and translation exercises. Profoundly strengthens students' general understanding of grammar, syntax, and word formation in any language, particularly Romance and Germanic languages (including English).

LATN 2010  Intermediate Latin I  4:4:0  Fall
* Prerequisite(s): LATN 1010 or equivalent.
Studies Latin at the intermediate level. Develops more advanced reading skills through the translation of selected Classical Latin texts.

LATN 3010  Readings in Latin  3:3:0  On Sufficient Demand
* Prerequisite(s): (LATN 2010 or equivalent) and University Advanced Standing
Studies Latin beyond the intermediate level through translation of original Classical or Medieval Latin texts.

Legal Studies (LEGL)

LEGL 1000  Introduction to American Law  3:3:0  Fall, Spring
Studies the relationship between social values, culture and the law, with particular emphasis on current events. Examines the structure of the American court system, its processes, and the American constitutional framework and federalism, methods of alternative dispute resolution, and a survey of major areas in American law, including torts, business and contracts, intellectual property, family law and estate planning. Lab access fee of $32 for computers applies.
Course Descriptions

**LEGL 1010**
Survey of Law
3:3:0 Not Offered
Covers the history and development of present-day law practice, including specialized areas of practice. Completers should be able to describe the American court system, know and use legal vocabulary, have a basic understanding of different substantive areas of law. $32 course fee for computers applies.

**LEGL 1110**
Civil Litigation
4:4:0 Fall, Spring
Pre requisite(s): LEGL 1000, ENGL 1010
Overviews court system, emphasizing the Utah State Courts, civil procedural and evidentiary rules, and stages of civil litigation. Emphasizes the paralegal's role in investigation, preparation, and resolution of lawsuits. Lab access fee of $32 for computers applies.

**LEGL 1120**
Court and Litigation Procedures
3:3:0 Fall, Spring
Pre requisite(s): ENGL 1010, LEGL 1000, LEGL 1220
Overviews court system, emphasizing the Utah State Courts, rules of procedure for civil, criminal and appellate court processes. Reviews all phases of litigation, from pre-litigation and strategic planning through post-judgment processes. Resolves questions of jurisdiction, venue, choice of law, litigation strategy, discovery, and other key processes.

**LEGL 1220**
Legal Research and Writing I
3:3:0 Fall, Spring
Pre requisite(s): ENGL 1010
Laboratory access fee of $32 for computers applies.

**LEGL 1230**
Criminal Law
3:3:0 Fall, Spring
Pre requisite(s): LEGL 1000
Examines the legal and procedural aspects of crime, including the elements and categories of criminal acts and jurisdictional considerations. Studies the procedure of criminal prosecution according to the Federal Rules of Criminal Procedure, from both a prosecution and defense perspective, including constitutional assurances, investigations, case preparation, motion processes, trials and appeals.

**LEGL 2830**
Legal Studies Capstone
3:3:0 Fall, Spring
Pre requisite(s): LEGL 1110, LEGL 2300, LEGL 3000
A capstone course for the Associate's Degree in Legal Studies. Provides integration of all functional paralegal skills via mock trials. Requires the student to write a legal memorandum analyzing a particular case and to present a legal issue to the class.

**LEGL 290R**
(Cross-listed with: CJ 290R)
Law Society
1:1:0 Fall, Spring
Elective credit for students interested in law or law-related professions. Provides a program of activity relating to current legal issues, encouraging social awareness and developing law and civic consciousness. Students arrange for guest speakers from the legal and criminal justice professions to present information concerning their professions. Teaches leadership skills by serving on committees. Pass/Fail grade issued. Paralegal majors and criminal justice majors may repeat this course for a total of three elective credits towards graduation. Each student must participate in the service project and fundraiser for a passing grade.

**LEGL 300H**
Business Law
3:3:0 Fall, Spring, Summer
Pre requisite(s): ENGL 1010 and University Advanced Standing
For School of Business students and others desiring a more complete understanding of business law. Presents the American legal system, constitutional law, statutory law, common law, and administrative law and alternatives to courts. Discusses crimes, torts, negligence, contracts, negotiable instruments, and contractual relationships. May be delivered online. Lab access fee of $32 for computers applies.

**LEGL 3020**
Intellectual Property and Cyber Law
3:3:0 Fall, Spring, Summer
Pre requisite(s): ENGL 1010 and University Advanced Standing
For School of Business students and others desiring a more complete understanding of business law at an honors level. Presents the American legal system, constitutional law, statutory law, common law, and administrative law and alternatives to courts. Discusses crimes, torts, negligence, contracts, negotiable instruments, and contractual relationships.

**LEGL 2110**
Civil Procedure
3:3:0 Fall, Spring
Pre requisite(s): LEGL 1000, LEGL 1120
Focuses on generation and creation of work product required in a civil case under the Utah and Federal Rules of Civil Procedure. Emphasizes initial pleadings, civil discovery processes, and pre-trial motion practice.

**LEGL 2300**
Legal Research and Writing II
3:3:0 Fall, Spring
Pre requisite(s): LEGL 1220
Examines the legal and procedural aspects of crime, including the elements and categories of criminal acts and jurisdictional considerations. Studies the procedure of criminal prosecution according to the Federal Rules of Criminal Procedure, from both a prosecution and defense perspective, including constitutional assurances, investigations, case preparation, motion processes, trials and appeals.

**LEGL 2350**
Evidence
3:3:0 Fall, Spring
Pre requisite(s): LEGL 1000
Examines the admissibility of evidence in both a civil and criminal trial context. Studies the Federal Rules of Evidence, and the privileges, challenges, advancements in technology and emerging issues in the use of evidence in American courts.

**LEGL 230R**
Special Topics in Legal Studies
3:3:0 Spring
Pre requisite(s): LEGL 1000
Provides exposure to emerging topics of current interest in the Legal field. Topics vary each semester. May be repeated for a maximum of 6 credits toward graduation.

**LEGL 281R**
Internship
1 to 8:0:5 to 40 Fall, Spring, Summer
Pre requisite(s): Approval from School of Business Career and Corporate Manager
Designed for paralegal majors to provide on-the-job work experience on a paid basis that will utilize the student's skills and abilities in the fields of law, law office, or other approved law related situations. Requires a portfolio of acquired work experience and enhanced skills. Includes student, employer, and coordinator evaluations; on site coordinator visits; written assignments; and oral presentations. Provides experience in formulating and completing individualized work experience objectives. May be graded credit/no credit.

**LEGL 2100**
Disciplined Communication
3:3:0 Fall, Spring
Pre requisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Designed for School of Business students and others desiring a more complete understanding of business law at an honors level. Presents the American legal system, constitutional law, statutory law, common law, and administrative law and alternatives to courts. Discusses crimes, torts, negligence, contracts, negotiable instruments, and contractual relationships.

**LEGL 258R**
Elective credit for students interested in law or law-related professions. Provides a program of activity relating to current legal issues, encouraging social awareness and developing law and civic consciousness. Students arrange for guest speakers from the legal and criminal justice professions to present information concerning their professions. Teaches leadership skills by serving on committees. Pass/Fail grade issued. Paralegal majors and criminal justice majors may repeat this course for a total of three elective credits towards graduation. Each student must participate in the service project and fundraiser for a passing grade.

**LEGL 290R**
(Cross-listed with: CJ 290R)
Law Society
1:1:0 Fall, Spring
Elective credit for students interested in law or law-related professions. Provides a program of activity relating to current legal issues, encouraging social awareness and developing law and civic consciousness. Students arrange for guest speakers from the legal and criminal justice professions to present information concerning their professions. Teaches leadership skills by serving on committees. Pass/Fail grade issued. Paralegal majors and criminal justice majors may repeat this course for a total of three elective credits towards graduation. Each student must participate in the service project and fundraiser for a passing grade.
LEGL 3100 Hospitality Law  
3:3:0 Fall  
* Prerequisite(s): (ENGL 2100 or ENGL 2200) and University Advanced Standing  
Teaches responsibilities and the law grants to a hotelkeeper,  
and illustrates the possible consequences of failure to satisfy  
legal obligations. Explains the issues surrounding the need  
for individualized security programs; examines a wide variety  
of security and safety equipment and procedures, and  
discusses guests safety. Presents a systematic approach to  
the legal issues affecting human resource management.  
Includes lecture, case studies, videos, and site visits. May  
be delivered online. Lab access fee of $32 for computers  
applies.

LEGL 3130 Real Estate Principles and Finance  
3:3:0  
* Prerequisite(s): ENGL 1010 or equivalent  
Includes the nature of real property, estates in land,  
transfer of real property rights, encumbrances, public  
restrictions, and contracts. Discusses ownership in real  
estate, settlement, taxation, real estate finance, math in  
real estate applications, and real estate valuation and  
appraisal. Lab access fee of $32 for computers applies.

LEGL 3140 Real Estate Law  
3:3:0  
* Prerequisite(s): ENGL 1010 or equivalent  
Explores the legal implications of ownership of real  
property, including property management and new  
construction. Also covers federal and Utah-specific law,  
and Utah licensing testing and review. Lab access fee of  
$32 for computers applies.

LEGL 3150 Survey of Dispute Resolution  
3:3:0 Fall  
* Prerequisite(s): (LEGL 1000 or LEGL 3000 or PSY  
1010 or SOC 1010 or SW 1010) and University  
Advanced Standing  
Offers an introduction to the most commonly practiced  
dispute resolution processes, including negotiation,  
mediation, arbitration, and litigation. Studies conflict  
resolution theory and explores contemporary dispute  
resolution policy issues. Involves participation in  
simulations of various dispute resolution processes,  
including interviewing and counseling, negotiation,  
mediation, and arbitration.

LEGL 3160 Health Care Law  
3:3:0 Spring  
* Prerequisite(s): (HLTH 3200 or LEGL 1000) and  
University Advanced Standing  
Impact of laws, regulations, and public policy on  
management and delivery of health care. Provider liability,  
managed health care contracts, HIV-related concerns,  
assisted suicide, other issues.

LEGL 3170 Real Estate Contracts and Agency  
3:3:0 Spring  
* Prerequisite(s): ENGL 1010 or equivalent  
Explores the intricacies of contracts and agency  
relationships in real estate transactions, including uniform  
real estate contracts, agency agreements and principles,  
the Utah standard Real Estate Purchase Contract, and  
other related issues.

LEGL 3190 Legal Environment  
3:3:0 Fall, Spring  
* Prerequisite(s): University Advanced Standing  
* Prerequisite(s) or Corequisite(s): LEGL 1000  
Explores common historical theories of law and  
ethical standards for legal professionals. Examines  
unauthorized practice of law, confidentiality, and other  
standards of conduct. Emphasizes the American Bar  
Association and the Utah Rules of Professional Conduct.  
Emphasizes the development of effective techniques for  
locally locating, applying for, securing employment,  
and advancing in the legal profession. Lab access fee of  
$32 for computers applies.

LEGL 3210 Interviewing and Investigations  
3:3:0 Spring  
* Prerequisite(s): LEGL 1120 and University Advanced  
Standing  
Overview of how to conduct a factual investigation in  
various contexts, including criminal and civil cases,  
with particular emphasis on interviewing witnesses. Includes  
technology-driven investigative tools, social media, the  
Freedom of Information Act and other resources, and  
the ethical and legal limitations on investigative techniques.

LEGL 3220 Entrepreneurship Law  
3:3:0 Fall  
* Prerequisite(s): ENGL 1010 and University Advanced  
Standing  
For entrepreneurship students and others desiring  
a to start a business. Presents current U.S. legal  
framework as they concern start-ups and new businesses.  
Topics include the American legal system, constitutional  
and statutory law, common law and administrative  
law and alternatives to courts. Discusses crimes,  
torts, negligence, contracts, negotiable instruments, and  
contractual relationships.

LEGL 3250 (Cross-listed with: POLS 3250, CNST  
3250) Introduction to Law and Politics  
3:3:0  
* Prerequisite(s): (POLS 1010 or Instructor Approval) and  
University Advanced Standing  
Examines the relationship between law and politics.  
Addresses the impact politics have on the judiciary and  
the strengths and weaknesses of law as a means of social  
order. Focuses on general issues of legal and political  
theory and the social and political function of law.

LEGL 3310 Marketing Law  
3:3:0 Spring  
* Prerequisite(s): ENGL 1010 and University Advanced  
Standing  
For School of Business marketing students and others  
Desiring a more complete understanding of marketing law.  
Broadly presents the American legal system, with special  
attention to issues in constitutional law, statutory law,  
common law, and administrative law and alternatives to  
courts with respect to marketing. Discusses crimes, torts,  
negligence, contracts, negotiable instruments, intellectual  
property, and contractual relationships.

LEGL 3320 Family Law  
3:3:0  
* Prerequisite(s): (LEGL 1000 or ENGL 2100 or ENGL  
2200) and University Advanced Standing  
Covers family issues and drafting of legal documents  
relating to domestic litigation. Explores case law  
related to the marriage contract, divorce, adoption,  
guardianships, paternity, illegitimacy, and prenuptial  
agreements. Emphasizes family law document production  
in domestic cases. Lab access fee of $32 for computers  
applies.

LEGL 3340 Boundary Law  
3:3:0 Fall  
* Prerequisite(s): University Advanced Standing  
Studies the responsibilities of the land boundary surveyor  
in protecting rights, title, and interest of the land;  
riparian and littoral rights, bona-fide rights, boundary  
easements and revocations, conveyances; sequential  
and simultaneous. Presents principles and rules of  
evidence. Includes monuments and monumentation,  
boundary locations, and procedures used to establish  
new boundaries and locate existing boundaries.

LEGL 3410 Mediation and Negotiation  
3:3:0 Fall  
* Prerequisite(s): (LEGL 1000 or LEGL 3000) and  
University Advanced Standing  
Prepares students to knowledgeably understand and  
participate on a basic level in the process of mediation  
and negotiation in a legal context. Focuses on conceptual  
knowledge of both process and practical skills and  
effectiveness as a mediator and negotiator.

LEGL 3530 (Cross-listed with: MGMT 3530)  
Employment and Labor Law  
3:3:0 Fall  
* Prerequisite(s): (ENGL 2100 or ENGL 2200) and  
University Advanced Standing  
Covers employment and labor law, cases, and policy.  
Includes employment discrimination along with labor  
relations statues exploring the link between employment  
discrimination and traditional labor relations law. Presents  
tools necessary to formulate and write policy for profit  
and non-profit organizations. Includes lecture, class  
discussions, case studies, a service learning project, and  
guest speakers.
Course Descriptions

LEGL 3650
Tort Law
3:3:0 Spring
* Prerequisite(s): LEGL 1000, (ENGL 2010 or ENGL 2020), and University Advanced Standing

Provides instruction in theory and practice of tort and injury law. Successful completers should know and use legal vocabulary and demonstrate an understanding of tort and injury law. Lab access fee of $32 for computers applies.

LEGL 3760
Law Practice Management
3:3:0 Fall
* Prerequisite(s): Matriculation into any Legal Studies Program and University Advanced Standing

Covers management principles applicable in modern law practice from solo practice to large mega firms. Provides students with parameters and policies of the business of law to understand why law firms conduct business differently from other industries. Introduces students to administrative and substantive functions and procedures common to a law office that make the student's transition into legal employment easier. Encourages ethical considerations and acquisition of skills required by law firms that use efficient systems and procedures.

LEGL 3890
Certified Legal Assistant Preparation
3:3:0 Spring
* Prerequisite(s): LEGL 2300 and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Acquaints students with Certified Legal Assistant exam prerequisites and preparation strategies. Reviews all required sections of the exam which include legal terminology, communications, legal ethics, judgment and analytical ability, legal research, human relations and interviewing techniques, and general law. Also covers some elective law portions of the exam which might include administrative law, bankruptcy law, business organizations, contract law, criminal law, estate planning and probate, family law, litigation, real estate law. Successful completers should be prepared to sit for the CLA Exam.

LEGL 4000
Advanced Business Law and E-Commerce
3:3:0 Spring
* Prerequisite(s): LEGL 3000 and University Advanced Standing

Examines contemporary issues in business law, with an emphasis in e-commerce and business in a digital environment. Studies secured transactions, business associations, investor protection, consumer protection and government regulation in an increasingly global and interconnected business environment. Recommended for students interested in graduate school, especially in law or business.

LEGL 4100
Advanced Mediation
3:3:0 Spring
* Prerequisite(s): LEGL 3410 and University Advanced Standing

Prepares students to perform at an advanced level in the mediation process. Builds on the fundamentals learned in the basic course, improves knowledge, and sharpens practical skills and effectiveness as a mediator. Uses an interactive-workshop format that blends theory with simulated class role-play.

LEGL 4130
Bankruptcy and Collections
3:3:0 Spring
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): LEGL 3000

Covers collection of debts and the discharge of certain financial obligations in bankruptcy, including Chapter 7, 11, and 13 filings. Utilizes lecture and practical experience in the preparation of collection and bankruptcy documents. Teaches basic collections, bankruptcy law, drafting collections, bankruptcy pleadings, and schedules. Lab access fee of $32 for computers applies.

LEGL 4150
Wills Trusts and Probate
3:3:0 Fall
* Prerequisite(s): Matriculation into any Woodbury School of Business program and University Advanced Standing

Examines purpose and methods of estate planning, emphasizing the drafting of simple wills, trusts, and other estate planning documents. Covers testamentary and non-testamentary disposition of property, taxation, intestate succession, medical directives, power of attorney and probate and estate administration processes. Lab access fee of $32 for computers applies.

LEGL 4160
Contract Law
3:3:0 Spring
* Prerequisite(s): LEGL 3000 and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Provides a functional approach to the Law of Contracts. Teaches contract problems and defenses through case study method. Lab access fee of $32 for computers applies.

LEGL 418G
International Law
3:3:0 Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Examines the emergence of International Law as a reflection of changing social, cultural, religious perspectives in an increasingly global community. Studies the global relationships between states, businesses, and individuals, and the resolution of disputes on an international level, including special problems in international crime, jurisdiction, courts, contracts and trade, intellectual property, and other current issues.

LEGL 4190
Constitutional Law
3:3:0 Fall, Spring
* Prerequisite(s): Matriculation into any Legal Studies major and University Advanced Standing

Examines the relationships between individual liberty and the government, including the separation of powers, federalism and limits on the government's ability to restrict individual freedom. Studies the Bill of Rights, with emphasis on the first, fourth, and fourteenth amendments, and their practical effect in civil and criminal cases.

LEGL 4200
Domestic Mediation
3:3:0 Fall
* Prerequisite(s): (LEGL 3410 or instructor approval) and University Advanced Standing

Prepares students to understand and participate knowledgeably and effectively in the process of domestic mediation. Improves conceptual knowledge about and understanding of the domestic mediation process as well as improving practical negotiation and mediation skills. Utilizes a highly interactive workshop format that blends theory with practice.

LEGL 430G
International Business Law
3:3:0 Fall
* Prerequisite(s): (ENGL 2010 or ENGL 2020), Junior Standing, and University Advanced Standing

Examines current issues in international and comparative business law, including environmental protections, multinational enterprises, foreign investment, banking, labor, financing and taxation. Studies how culture, values, religion, and other factors affect law in a global business context. Recommended for students graduate work, especially in business or law. Fulfills Global/Intercultural Requirement.

LEGL 4340
Surveying Legal Principles
3:3:0 Spring
* Prerequisite(s): SURV 2360, SURV 3340, ENGL 2310, matriculation into the Geomatics BS degree, and University Advanced Standing

Focuses on researching the body of law as it applies to the practice of surveying. Covers common law associated with the Statute of Frauds, Constructive Notice, and Surveyor/Attorney interaction and roles. Discusses principles and concepts of dispute and conflict resolution as well as the specific role of the expert witness. Reviews the fact finder role of the surveyor in research/investigation techniques and sources while focusing on facts of a case and the applicable laws. Completers will work on case studies and prepare a final legal research paper. Involves tour(s) of a law library.

LEGL 458R
Advanced Special Topics
3:3:0 Spring
* Prerequisite(s): LEGL 3000 and University Advanced Standing

Provides exposure to emerging topics of current interest in the Legal field. Topics vary each semester. May apply a maximum of 12 credits toward graduation.

LEGL 4800
Fraud Examination and Forensic Accounting
3:3:0 Fall, Spring
* Prerequisite(s): ACC 312G, MGMT 2390, Matriculation into the BS Accounting degree program, and University Advanced Standing

Introduces accounting and business students to the seriousness of fraud and its impact on business and society. Examines the elements of forensic accounting and fraud detection, prevention, and resolution. Course fee of $19 for Fraud Examiners Manual applies.
LEGL 481R
Internship
Fall, Spring, Summer
* Prerequisite(s): Approval from School of Business Career and Corporate Manager and University Advanced Standing

Provides actual, on-the-job work experience in a non-paying (volunteer) basis in a law office or other approved law-related situation. Emphasizes successful work experience, especially identifying and solving problems. Completers should be qualified to work in the Paralegal profession. May be repeated for a maximum of 8 credits. May be graded credit/no credit.

LEGL 4830
Legal Studies Capstone
Fall, Spring
* Prerequisite(s): LEGL 1110, LEGL 2300, LEGL 3000, and University Advanced Standing

A capstone course for the Bachelor's Degree in Legal Studies. Provides integration of all functional paralegal skills via mock trials. Requires the student to write a legal memorandum analyzing a particular case and to present a legal issue to the class.

LEGL 498R
Directed Research
1 to 3:1 to 3:0
* Prerequisite(s): (ENGL 2010 or ENGL 2020), LEGL 2300, Department Approval, and University Advanced Standing

Studies the process of researching and writing for scholarly publication. Includes understanding the concepts of scholarly conversation, managing scholarship, choosing a topic, identifying appropriate journals, using exemplars, creating a title and abstract, making an outline, developing an introduction and conclusion, writing the body of the paper, and then revising, submitting, and finally publishing in a scholarly journal. May be repeated for a maximum of 6 credits toward graduation.

LEGL 6000
Legal Challenges in Modern Business
1.5:1:5.0
* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Examines contemporary issues in business law, with an emphasis in e-commerce and business in a digital environment. Studies secured transactions, business associations, investor protection, consumer protection and government regulation in an increasingly global and interconnected business environment. Recommended for business executives and managers.

Mathematics (MATH)

MATH 1030
Quantitative Reasoning
Fall, Spring, Summer
* Prerequisite(s): One of the following: MAT 1000 or MAT 1010 with a grade of C or higher within the past two years; an ACT mathematics score of 23 (assuming the test has been taken within the last two years); appropriate placement by the Accuplacer test

Introduces major topics in the field of mathematics. Includes sets, algebra, geometry, and statistics. Emphasizes problem solving and critical thinking.

MATH 1040
Introduction to Statistics
Fall, Spring, Summer
* Prerequisite(s): One of the following: MAT 1000 or MAT 1010 with a grade of C or better within the past two years; an ACT mathematics score of 23 (assuming the test has been taken within the last two years); appropriate placement by the Accuplacer test

A quantitative literacy course with a statistical theme. Includes descriptive statistics, sampling, and inferential methods. Emphasizes problem solving and critical thinking.

MATH 1050
College Algebra
Fall, Spring, Summer
* Prerequisite(s): One of the following: MAT 1000 or MAT 1010 with a grade of C or better within the past two years; an ACT mathematics score of 23 (assuming the test has been taken within the last two years); appropriate placement by the Accuplacer test

Includes inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, conic sections, systems of linear and nonlinear equations, matrices and determinants, arithmetic and geometric sequences, and the Binomial Theorem. May be delivered hybrid and/or online. Lab access fee of $30 applies.

MATH 1060
Trigonometry
Fall, Spring, Summer
* Prerequisite(s): MATH 1050 with a grade of C or higher within the past two years or appropriate placement by the Accuplacer test (taken within the past two years)

Includes the unit circle and right triangle definitions of the trigonometric functions, graphing trigonometric functions, trigonometric identities, trigonometric equations, inverse trigonometric functions, the Law of Sines and the Law of Cosines, vectors, complex numbers, polar coordinates, and rotation of axes.

MATH 1065
Precalculus
Fall, Spring, Summer
* Prerequisite(s): MATH 1050 and MATH 1060

Provides a review of algebra and trigonometry for students who have been out of school for some time. Reviews the mathematical concepts taught in MATH 1050 and MATH 1060. Students who choose to apply MATH 1065 toward graduation cannot also count MATH 1050 and MATH 1060.

MATH 1100
Introduction to Calculus
Fall, Spring, Summer
* Prerequisite(s): MATH 1050 with a grade of C or better within the past two years or appropriate placement by the Accuplacer test (taken within the past two years)

Introduces the student to differential and integral calculus with applications to a variety of fields, including business, economics, and the life, social, and physical sciences. Develops and applies the concepts of calculus to functions of one variable. Studies differential calculus involving functions of several variables. Emphasizes understanding and communication of mathematical ideas, logical reasoning, and problem-solving.

MATH 1210
Calculus I
Fall, Spring, Summer
* Prerequisite(s): One of the following: MATH 1050 and MATH 1060, each with a grade of C or higher within the past two years; MATH 1065 with a grade of C or higher within the past two years; appropriate placement by the Accuplacer test (taken within the past two years)

Includes limits and continuity, differentiation, applications of differentiation, integration, applications of integration, derivatives of the exponential functions, logarithmic functions, inverse trigonometric functions, and hyperbolic functions, and related integrals. Prerequisite for calculus-based sciences.

MATH 121H
Calculus I
Fall, Spring, Summer
* Prerequisite(s): One of the following: MATH 1050 and MATH 1060, each with a grade of C or higher within the past two years; MATH 1065 with a grade of C or higher within the past two years; appropriate placement by the Accuplacer test (taken within the past two years)

Includes limits and continuity, differentiation, applications of differentiation, integration, applications of integration, derivatives of the exponential functions, logarithmic functions, inverse trigonometric functions, hyperbolic functions, and related integrals. Prerequisite for calculus-based sciences. An honors course with student projects.

MATH 1220
Calculus II
Fall, Spring, Summer
* Prerequisite(s): MATH 1210 with a grade of C or higher

Includes integration techniques, arc length, area of a surface of revolution, moments and centers of mass, sequences and series, parametrization of curves and polar coordinates, vectors in 3-space, and quadric surfaces. Prerequisite for calculus-based sciences.

MATH 122H
Calculus II
Fall, Spring, Summer
* Prerequisite(s): MATH 1210 with a grade of C or higher

Includes integration techniques, arc length, area of a surface of revolution, moments and centers of mass, sequences and series, parametrization of curves and polar coordinates, vectors in 3-space, and quadric surfaces. Prerequisite for calculus-based sciences. Honors course which requires a student project.

MATH 1050
Mathematics for Elementary Teachers I
Fall, Spring, Summer
* Prerequisite(s): MAT 1000 or MAT 1010 with a grade of C or higher within the past two years or appropriate placement by the Accuplacer test (taken within the past two years)

Includes problem solving, sets, numeration systems, arithmetic of whole numbers, integers, rational numbers, real numbers, elementary number theory, ratios, proportions, decimals, and percents.

MATH 1060
Mathematics for Elementary Teachers II
Fall, Summer
* Prerequisite(s): MATH 1010 with a grade of C or higher

The second semester of the mathematics course for elementary teachers; includes topics on probability, statistics, geometry and measurement.
MATH 2040 Principles of Statistics QL
4:4:0 Fall, Spring, Summer
* Prerequisite(s): MATH 1050 with a grade of C or higher within the past two years or appropriate placement by the Accuplacer test (taken within the past two years)
Includes summarizing data, measures of central location, measures of variation, probability, mathematical expectation, probability distributions, sampling and sampling distributions, estimation, hypothesis testing, analysis of variance, regression analysis, and correlation. Lab access fee of $30 applies.

MATH 2210 Calculus III QL
3:3:0 Fall, Spring
* Prerequisite(s): MATH 2200 with a grade of C or higher
Includes partial derivatives, gradient, Lagrange multipliers, multiple integrals, line integrals, Green's Theorem, surface integrals, the Divergence Theorem, and Stokes' Theorem.

MATH 221H Calculus III QL
3:3:0
* Prerequisite(s): MATH 2200 with a grade of C or higher
Includes partial derivatives, gradient vectors, Lagrange multipliers, multiple integrals, line integrals, Green's Theorem, surface integrals, the Divergence Theorem, and Stokes' Theorem. An honors course which includes a student project.

MATH 2270 Linear Algebra 3:3:0
* Prerequisite(s): MATH 2200 with a grade of C or higher
Includes matrices and systems of equations, determinants, vector spaces, linear transformations, orthogonality, and eigenvalues and eigenvectors.

MATH 2280 Ordinary Differential Equations 3:3:0 On Sufficient Demand
* Prerequisite(s): MATH 2210 with a grade of C or higher

MATH 281R Cooperative Work Experience 2 to 9:1:5 to 40 Fall, Spring, Summer
* Prerequisite(s): Approval of Cooperative Coordinator
Designed for mathematics majors. Provides paid work experiences in the student's major. Course content is individualized, with the student setting the objectives by consulting with a faculty coordinator and the on-the-job supervisor. Credit is determined by the number of hours the student works during the semester. Repeatable for a maximum of 16 credits toward graduation. May be graded credit/no credit.

MATH 3000 History of Mathematics 3:3:0 Spring
* Prerequisite(s): MATH 2210 with a grade of C or higher and University Advanced Standing
Provides a survey of the history of mathematics.

MATH 3010 Methods of Secondary School Mathematics Teaching 3:3:0 Fall
* Prerequisite(s): MATH 2210 with a grade of C or higher and University Advanced Standing
For Mathematics Education majors. Presents different methods of teaching mathematical ideas at the secondary school level. Includes classroom instruction, students presentations, and field experiences. Studies various techniques of assessment and classroom management.

MATH 3020 Computer-Based Mathematics for Secondary School Mathematics Teachers 3:3:0 Fall
* Prerequisite(s): (MATH 2210 and MATH 2270 each with a grade of C or higher) and University Advanced Standing
For Mathematics Education majors. Presents one or more popular mathematical computer software packages. Includes mathematical problem solving and presentations of mathematical concepts using a computer as an aid. Introduces appropriate programming language. Lab access fee of $30 applies.

MATH 3040 Probability and Statistics for Engineering and the Sciences 3:3:0 Fall
* Prerequisite(s): (MATH 2210 and MATH 2270 each with a grade of C or higher) and University Advanced Standing
Introduces mathematical statistics for scientists and engineers. Includes counting techniques, random variables, expected values, joint and marginal distributions, point estimation, hypothesis testing, analysis of variance, and regression.

MATH 3100 Foundations of Geometry 3:3:0 Fall
* Prerequisite(s): MATH 1220 with a grade of C or higher and University Advanced Standing
Introduces the construction of rigorous proofs of mathematical claims in the context of beginning analysis.

MATH 3110 Foundations of Analysis 3:3:0 Spring, Summer
* Prerequisite(s): (MATH 2210 or MATH 2270) with a grade of C or higher and University Advanced Standing
Introduces the construction of rigorous proofs of mathematical claims in the context of beginning analysis.

MATH 3210 Complex Variables 3:3:0 On Sufficient Demand
* Prerequisite(s): MATH 2210 with a grade of C or higher and University Advanced Standing
Introduces complex analysis. Includes algebra of complex numbers, analytic functions, mapping properties of elementary functions, the Cauchy integral formula, complex series, residues, and conformal mapping.

MATH 3300 Foundations of Abstract Algebra 3:3:0 Spring
* Prerequisite(s): (MATH 2210 and MATH 2270) each with a grade of C or higher) and University Advanced Standing
Offers an introduction to algebraic structures. Includes groups, rings, integral domains, fields.

MATH 3310 Discrete Mathematics 3:3:0
* Prerequisite(s): MATH 1220 with a grade of C or higher and University Advanced Standing
Includes logic, sets, functions, elementary number theory, mathematical induction, equivalence relations, and cardinality. Emphasizes the writing of proofs.

MATH 3400 Partial Differential Equations 3:3:0 Spring
* Prerequisite(s): MATH 2210 with a grade of C or higher and University Advanced Standing
Introduction to partial differential equations. Topics include Bessel functions, Legendre polynomials, Fourier analysis, partial differential equations, and boundary value problems.

MATH 3710 Applied Regression and Time Series 4:4:0
* Prerequisite(s): MATH 2210 with a grade of C or higher and University Advanced Standing
Provides students in non-mathematical disciplines the ability to answer typical research questions for their senior projects or graduate-level research. Includes logistic, nonparametric, and partial least squares regression, MANOVA, ANCOVA, multicollinearity and error variance, ARMA and ARIMA. Satisfies the VEE statistics requirement for the Society of Actuaries. Introduces SAS software as a tool for statistical analysis.

MATH 3750 Financial Mathematics 3:3:0 On Sufficient Demand
* Prerequisite(s): (MATH 1220 or FIN 3100) each with a grade of C or higher) and University Advanced Standing
Prepares students to take Exam FM/Exam 2 given by the Society of Actuaries/Casualty Actuarial Society. Trains students to answer complex questions under significant time pressure. Teaches the principles and mathematics of interest, annuities, amortization, investments, financial economics, derivative investment contracts and financial risk management.

MATH 4000 Introduction to Probability 3:3:0 On Sufficient Demand
* Prerequisite(s): MATH 2210 with a grade of C or higher and University Advanced Standing
An introduction to probability which includes random variables, marginal, joint and conditional distributions, transformations of random variables, expectation, variance, covariance, and special distributions. Also covers counting techniques, moment generating functions, and the central limit theorem.
MATH 4015
Actuarial Problems Laboratory
1:0:3 On Sufficient Demand
* Prerequisite(s): MATH 4000 and University Advanced Standing

Provides preparation for the first actuarial examination by linking concepts of probability and mathematical statistics to actuarial applications.

MATH 4025
Actuarial Problems Finance Laboratory
1:0:3
* Prerequisite(s): (MATH 3750 or Departmental Approval) and University Advanced Standing

Provides preparation for the second actuarial examination by linking concepts of finance and derivative markets to actuarial applications frequently found on Exam FM/2.

MATH 4210
Advanced Calculus I
3:3:0
* Prerequisite(s): MATH 3200 and MATH 3310 with a grade of C or higher and University Advanced Standing

Continues the study of rings in this second course of a two-course sequence that introduces the student to topics in actuarial applications.

MATH 4220
Advanced Calculus II
3:3:0 On Sufficient Demand
* Prerequisite(s): MATH 4210, MATH 2270 and MATH 2280 with a grade of C or higher, and University Advanced Standing

Covers the introductory concepts of calculus proofs, including sequences, series, integration, differentiation, continuity, series and sequences of functions, analytic functions, compactness, and an introduction to the topology of Euclidean spaces.

MATH 4310
Introduction to Modern Algebra I
3:3:0
* Prerequisite(s): MATH 3300 with a grade of C or higher and University Advanced Standing

Introduces the student to basic topics in Modern Algebra in this first course of a two-course sequence. Includes a thorough study of group theory and an introduction to rings.

MATH 4320
Introduction to Modern Algebra II
3:3:0 On Sufficient Demand
* Prerequisite(s): MATH 4310 with a grade of C or higher and University Advanced Standing

Introduces the student to topics in Modern Algebra. Focuses on the study of fields and field extensions, and applies these concepts to the solutions of the three famous construction problems from antiquity.

MATH 4330
Theory of Linear Algebra
3:3:0
* Prerequisite(s): MATH 3300 with a grade of C or higher and University Advanced Standing

Presents a theoretical treatment of vector spaces, linear transformations, and inner product spaces.

MATH 4340
Introduction to Number Theory
3:3:0 On Sufficient Demand
* Prerequisite(s): MATH 2210 with a grade of C or higher and University Advanced Standing

Covers divisibility, irreducibility and primeness, linear Diophantine equations, Pell’s equation, continued fractions, congruence’s, Euler’s theorem, arithmetic functions, primitive roots, quadratic reciprocity.

MATH 4510
Foundations of Topology
3:3:0 On Sufficient Demand
* Prerequisite(s): MATH 3310 with a grade of C or higher and University Advanced Standing

Introduction to the ideas of topologies, compactness, connectedness, countability, separability, separation axioms, homeomorphisms, and the Baire Category Theorem.

MATH 4610
Introduction to Numerical Analysis I
3:3:0 On Sufficient Demand
* Prerequisite(s): MATH 2210, MATH 2270, and MATH 2280, each with a grade of C or higher, an approved programming language, and University Advanced Standing

Introduction to numerical analysis I. Topics will include numerical solutions of equations in one variable, numerical solutions of linear and nonlinear system of equations, interpolations and polynomial approximation, and approximating eigenvalues and eigenvectors. Lab access fee of $30 applies.

MATH 4620
Introduction to Numerical Analysis II
3:3:0 On Sufficient Demand
* Prerequisite(s): MATH 4610 with a grade of C or higher and University Advanced Standing

Introduction to numerical analysis II. Topics will include numerical differentiation and integration, numerical solutions of initial-value problems and boundary-value problems for ordinary differential equations, numerical. Lab access fee of $30 applies.

MATH 4710
Mathematical Statistics I
3:3:0 On Sufficient Demand
* Prerequisite(s): MATH 2210 with a grade of C or higher and University Advanced Standing

Introduces mathematical statistics including random variables, set theory, transformations, expectation, joint and marginal distributions, moment generating functions, and order statistics.

MATH 4720
Mathematical Statistics II
3:3:0
* Prerequisite(s): MATH 4710 with a grade of C or higher and University Advanced Standing

Continuation of MATH 4710. Includes estimation, sufficiency, completeness, hypothesis testing, statistical inference with the normal distribution, and Bayesian statistics.

MATH 4750
Life Contingencies
3:3:0 On Sufficient Demand
* Prerequisite(s): MATH 4710 with a grade of C or higher and University Advanced Standing

Includes survival models, Markov Chains, life insurance and annuities, and Poisson processes. Prepares students for the life contingencies portion of Exam M of the Society of Actuaries.

MATH 490R
Topics in Mathematics
2 to 3:2 to 3:0 On Sufficient Demand
* Prerequisite(s): Instructor Approval and University Advanced Standing

Studies a chosen topic in mathematics. The topic will vary depending upon student demand. Course may be taken more than once for different topics and for a maximum of 6 credit hours counted toward graduation. May be graded credit/no credit.

MATH 4999
Mathematics Capstone
2:2:0
* Prerequisite(s): Instructor approval, departmental approval, and University Advanced Standing

For mathematics majors. Provides mathematics-related work experience in an industrial, commercial, or research environment. Internship credit may not be used in fulfilling the mathematics major course requirements. May be taken two times for a maximum of 6 credits toward graduation. May be graded credit/no credit.
Mathematics Developmental (MAT)

MAT 090R
Individualized Mathematics Review
1 to 3:1 to 3:0 Fall, Spring, Summer
* Prerequisite(s): Appropriate test scores
For students placing into MAT 0950 or MAT 0990. Includes diagnostic test of student’s mathematical knowledge base.
Develops individualized study plan, including number of credit hours recommended to complete. Course offered credit/no credit. May be repeated once for a maximum of 5 credits. May be delivered hybrid. Lab access fee of $3 applies.

MAT 0920
Math Fundamentals
3:3:0 Fall, Spring
* Prerequisite(s): Appropriate test scores
Designed for students requiring basic math review.
Reviews basic operations with whole numbers and fractions. Topics of study include basic operations involving decimals, percents, ratios, rates, and basic operations involving physical measurements. Lab access fee of $3 applies.

MAT 0950
Foundations for Algebra
4:4:0 Fall, Spring, Summer
* Prerequisite(s): One of the following: Appropriate test scores taken within the last two years or MAT 0920 with a grade of C- or higher completed within the last two years
Designed for students requiring basic math and pre algebra instruction. Covers basic operations for number systems up to and including real numbers. Includes fractions, ratios, proportions, decimals, exponents, roots, linear equations, and polynomial expressions. May be delivered online. Lab access fee of $3 applies.

MAT 0980
Integrated Pre-Algebra and Beginning Algebra
5:5:0 Fall, Spring, Summer
* Prerequisite(s): Appropriate test scores that are no more than two (2) years old
An accelerated preparatory class for MAT 1010, Intermediate Algebra, covering Pre-Algebra and Beginning Algebra in one semester. Topics of study include real numbers, algebraic expressions, polynomials, solving and graphing linear equations and inequalities, factoring, quadratic equations, rational expressions and equations, ratios, percents, systems of linear equations, roots and radicals, and an introduction to complex numbers. May be delivered online. Lab access fee of $3 applies.

MAT 0990
Introductory Algebra
4:4:0 Fall, Spring, Summer
* Prerequisite(s): One of the following: MAT 0950 or MAT 0980 with a grade of C- or better and taken within the last two years; or appropriate math placement test scores that are no more than two (2) years old
For students who have completed a minimum of one year of high school algebra or who lack a thorough understanding of basic algebra principles. Teaches integers, solving equations, polynomial operations, factoring polynomials, systems of equations and graphs, rational expressions, roots, radicals, complex numbers, quadratic equations and the quadratic formula. Prepares students for MAT 1010, Intermediate Algebra. May be delivered hybrid and/or online. Lab access fee of $3 applies.

MAT 1000
GM Integrated Beginning and Intermediate Algebra
5:5:0 Fall, Spring, Summer
* Prerequisite(s): One of the following: MAT 0950 with a grade of B or better and taken within the last two years; or appropriate math placement test scores that are no more than two (2) years old
Teaches Beginning and Intermediate Algebra in one semester. Includes linear, quadratic, and rational expressions, equations, and functions; systems of equations; logarithms; exponents; graphing; and problem solving. Prepares students for MATH 1030, 1040, and 1050. May be delivered hybrid and/or online. Lab access fee of $3 applies.

MAT 1010
GM Intermediate Algebra
4:4:0 Fall, Spring, Summer
* Prerequisite(s): One of the following: MAT 0980 or MAT 0990 with a grade of C- or better and taken within the last two years; or appropriate math placement test scores that are no more than two (2) years old
Expands and covers in more depth basic algebra concepts introduced in Beginning Algebra. Topics of study include linear and quadratic equations and inequalities, polynomials and rational expressions, radical and exponential expressions and equations, complex numbers, systems of linear and nonlinear equations, functions, conic sections, and real world applications of algebra. May be delivered hybrid and/or online. Lab access fee of $3 applies.

MAT 1025
GM Introductory Algebra
4:4:0 Fall, Spring, Summer
* Prerequisite(s): MAT 1010 with a grade of B or better and taken within the last two years; or appropriate math placement test scores taken within the last two years; or appropriate math placement test scores that are no more than two (2) years old
Teaches Beginning and Intermediate Algebra in one semester. Includes linear, quadratic, and rational expressions, equations, and functions; systems of equations; logarithms; exponents; graphing; and problem solving. Prepares students for MATH 1030, 1040, and 1050. May be delivered hybrid and/or online. Lab access fee of $3 applies.

Mathematics Developmental (MAT)

Mechatronics Technology (MECH)

MECH 1010
Introduction to Mechatronics
3:3:0 Spring
* Prerequisite(s): MECH 1200
Exposes students to the fundamentals of materials science, manufacturing processes, and the application of automation systems in a production environment. Presents the fundamentals of the structure of metals, classification of steel and aluminum, and introduces the basics of the mechanical properties of metals. Covers common manufacturing processes such as casting, forming, metal removal, and heat treating. Introduces the application of automation in manufacturing and production systems and illustrates overall system control and data management methods. Course fee of $20 for materials applies.

MECH 1200
Electronics in Automation Design
5:3:6 Fall
* Prerequisite(s) or Corequisite(s): MECH 1010
Teaches basic AC and DC electronics theory including voltage, current, and resistance as well as basic electronic components such as resistors, capacitors, and inductors. Includes the analysis of series, parallel, and complex circuits as well as troubleshooting and measurement techniques. Emphasizes the application of electronic theory and analysis in the design of automation systems. Course Lab fee of $40 for materials, lab applies.

MECH 1250
Logic Fundamentals for Mechatronic Design
3:2:3
* Prerequisite(s) or Corequisite(s): MECH 1200
Emphasizes the concepts of basic logic design using combinational and sequential logic including fundamental computer architecture. Teaches number systems, binary arithmetic, logic gates, switches, relays, ladder logic, boolean algebra, truth tables, logic simplification, combinational and sequential circuits, flip flops counters, shift registers, and computer architecture. Utilizes standard laboratory equipment to experience logic circuits by building, analyzing, and troubleshooting. Course Lab fee of $11 for materials, lab applies.

MECH 2200
Semiconductors Used in Mechatronic Systems
4:3:3
* Prerequisite(s): MECH 1200
Teaches the theory of semiconductor PN junctions and the application of discrete semiconductors such as diodes, bipolar junction transistors, and MOSFET’s applied to automation controllers, interfaces, amplifiers, and sensors. Also emphasizes the utilization of optoisolators, triacs, and SCR’s in controlling automation power devices. Course Lab fee of $25 for materials, lab applies.
MECH 2300
Microcontroller Architecture and Programming
4:3:3  Spring
* Prerequisite(s): MECH 2200

Teaches computer architecture and the fundamentals of computer programming in C language. Uses an IDE to develop, compile and debug C code. Introduces structured top down design and program documentation. Teaches the organization of I/O ports including alternate functions. Utilizes microcontroller communications, functions and I/ O methods to interface to sensors and actuators. Course Lab fee of $50 for materials, lab applies.

MECH 2400
Mechanical Components
4:4:0  Fall
* Prerequisite(s): MECH 1010

Teaches students how to select, design, and analyze mechanical components that are used in manufacturing automation systems. Reviews and reinforces the concepts of the structure of metals, metals selection, and mechanical properties. Focuses on the selection of belt and chain drives, gear and gearbox selection, design of shafts, specification of rolling element bearings, and the use of threaded fasteners. Integrates the selection and design of mechanical components into a design project. Software fee of $25 applies.

MECH 2500
Introduction to PLCs in Mechatronic Design
4:2:6  Fall
* Prerequisite(s): MECH 2300

Studies the theory and programming of industrial control systems and programmable logic controllers (PLC). Introduces PLC programming stressing Ladder Logic and PLC programming, troubleshooting, and maintenance. Covers connection of PLCs to external components. Course Lab fee of $15 for materials, lab applies. Software fee of $25 applies. Lab access fee of $35 for computers applies.

MECH 2510
Automation System Sensors
3:2:3  Fall
* Prerequisite(s) or Corequisite(s): MECH 2500

Teaches mechatronics students how to select, install, and troubleshoot sensors in a manufacturing environment. Emphasizes the application of proximity sensors in automation equipment as well as the use of encoders to measure speed and position, pressure transducers, and the use of thermocouples and thermistors to measure temperature. Utilizes signal conditioning methods to interface sensors to microprocessors and PLCs. Course Lab fee of $20 for lab notebook, lab applies. Software fee of $25 applies.

MECH 2550
Advanced PLC Programming and Applications
4:2:6  Spring
* Prerequisite(s): MECH 2500

Teaches the principles of program structure, subroutines, interrupts, debugging, and simplifying. Illustrates the measurement and scaling of analog signals and the use of tables and pointers to manipulate data. Features networking principles, such as Ethernet, serial, and Bluetooth communication. Includes the use of high speed counters and PWM output. Course Lab fee of $15 for materials, lab applies. Software fee of $25 applies. Lab access fee of $35 for computers applies.

MECH 2600
Introduction to Pneumatics
3:2:3  Spring
* Prerequisite(s): MECH 2400

Develops the concepts used to design, build, and control a pneumatic system that is used in an industrial automation process. Employs laboratory exercises to illustrate the selection and use of pneumatic actuators, valves, and controls to sequentially control a process. Course Lab fee of $15 for materials, lab applies.

MECH 3000
Wiring Diagrams in Automation Systems
3:3:0  Spring
* Prerequisite(s): EGDT 1071 and University Advanced Standing.

Teaches how to create industrial wiring diagrams and how to integrate them into a 3D design using SolidWorks Electrical. Requires students to follow IEEE drawing standards to design a complete electromechanical automation system. Includes the development of a complete electrical wiring diagram package that conforms to standard industrial practice.

MECH 3060
Mechatronics Management
3:3:0  Not Offered
* Prerequisite(s): MECH 2550 and University Advanced Standing

Provides management principles, processes, and standards commonly used in manufacturing and other industries. Covers basic concepts in project management, operations management, quality management, and safety management. Familiarizes students with applicable software tools.

MECH 3220
Automation Motors and Controllers
3:2:3  Spring
* Prerequisite(s): MECH 2400 and MECH 2550, University Advanced Standing.

Presents the selection and application of AC and DC servo motors and how to control the speed and position of the motor application. Teaches variable frequency drives and servo amplifiers in an automation system design. Course Lab fee of $15 for materials, lab applies.

MECH 3300
Industrial Networks
3:2:3  Spring
* Prerequisite(s): MECH 3220, University Advanced Standing.

Teaches the students how to design, configure, integrate, and maintain an industrial floor network. Uses Allen Bradley software to integrate PLCs, sensors, HMI’s, and remote computers, smart phones, and iPads into a manufacturing data management network. Course Lab fee of $25 for materials, lab applies.

MECH 3400
Statics and Strength of Materials
5:5:0  Spring
* Prerequisite(s): MECH 2400 and MATH 1050 or higher, University Advanced Standing.

Teaches the concepts of forces as vectors, the equations of equilibrium, how to calculate internal forces on a structure, and the calculation of centroids and area moments of inertia. Using the principles of statics, teaches how to calculate tensile and shear stress in machine components and compare the resultant forces to standard theories of failure.

MECH 3500
Industrial Robots
3:2:3  Spring
* Prerequisite(s): MECH 3220, University Advanced Standing.

Introduces the principles of industrial robotics, programming, and the application of vision systems. Teaches power supply systems, degrees of freedom, sensors, end effectors, and maintenance methods. Course Lab fee of $11 for flat ribbon cable, lab applies.

MECH 3570
Design Analysis and Rapid Prototyping
3:3:0  Spring
* Prerequisite(s): MECH 3000, University Advanced Standing.

Teaches the fundamentals of geometric dimensioning and tolerancing based on the ASME Y14.5 standard. Teaches how a design is affected by manufacturing tolerances and how to specify the fit of parts on a detail print. Emphasizes assembly analysis using SolidWorks Motion and rapid prototyping to verify the form, fit, and function of a design.

MECH 3700
CNC Machines
3:2:3  Spring
* Prerequisite(s): MECH 3220, University Advanced Standing.

Teaches the design, application, programming, and maintenance of CNC machines used in automation systems. Emphasizes the integration of CNC machines into automation systems. Covers specifications and performance, interfacing to PLCs, interfacing to industrial robots, tooling, programming, and integrating the CNC machine into factory floor network systems.
**Course Descriptions**

**MECH 4100**  
Technical Math Applied to Automation  
2:2:0  
* Prerequisite(s): MATH 1050, MECH 2550  
Covers the fundamentals of algebra, trigonometry and geometry as used in mechatronics systems. Introduces basic differential and integral calculus. Emphasizes mathematical techniques applied to technically oriented applications in automation.

**MECH 4300**  
Advanced Pneumatic Design  
3:2:3  
* Prerequisite(s): MECH 2600, University Advanced Standing.  
Expands on the basics taught in MECH 2600 and teaches motion control of a pneumatic system using a PLC, proportional flow control valves, and analog sensors. Covers analytical performance calculations, as well as software simulation of the complete pneumatic system.

**MECH 4400**  
Polymers/Composites and Processes  
3:3:0  
* Prerequisite(s): MECH 3400, University Advanced Standing.  
Teaches students the selection of polymers, design of polymer products and manufacturing processes associated with polymer based products. Also teaches types of composites and design of composite products.

**MECH 4500**  
Advanced Automation Controls  
3:2:3  
* Prerequisite(s): MECH 4300, University Advanced Standing.  
Teaches methods of advanced control of high speed components, analog controls, temperature, pressure, and time delay processes. Teaches digital and analog methods of control.

**MECH 4800**  
Capstone Project  
3:1:6  
* Prerequisite(s): MECH 3570, University Advanced Standing.  
Integrates the concepts of the Mechatronics Engineering Technology curriculum into a semester-long design project. Requires students to conceive, define, design, document, and prototype a mechatronic project.

**Meteorology (METO)**

**METO 1010**  
Introduction to Meteorology  
3:3:0  
Fall, Spring, Summer  
Introduces the study of our atmosphere. Studies the Earth's dynamic weather systems. Covers structure and compositions of the atmosphere; weather patterns; air masses; and types of weather fronts, weather forecasting, and climates. May be delivered online. Course fee of $10 for lab applies.

**METO 1020**  
Introduction to Meteorology Laboratory  
1:0:2  
Fall  
Provides hands-on experience for students investigating various meteorological phenomena discussed in METO 1010. Students desiring credit for a science major should take METO 1010 and METO 1020.

**METO 1060**  
Climate of the Earth  
3:3:0  
On Sufficient Demand  
Examines the causes and effects of climate change through the use of geology, meteorology, astronomy, oceanography and biology.

**METO 3100**  
Climate and the Earth System  
3:3:0  
Spring  
* Prerequisite(s): (CHEM 1110 or CHEM 1210), MATH 1050, GEO 1010, and University Advanced Standing  
For students interested in understanding the Earth's dynamic environment. Studies the four major Earth systems that constitute the environment: the lithosphere, hydrosphere, atmosphere, and biosphere. Investigates the interdependency of these systems. Explores global warming, ozone depletion, the green house effect, Earth's energy balance and other environmental concerns and discusses important environmental cycles.

**Business Management (MGMT)**

**MGMT 1010**  
Introduction to Business  
3:3:0  
Fall, Spring, Summer  
Overviews the business world, its structure, procedures, and vocabulary. Provides information to assist in making occupational choices. Methods include lectures, class discussions, group activities, videos, and guest speakers. Completers should have a general knowledge of business and career opportunities. May be delivered online. Canvas Course Mats $57/ Pearson applies.

**MGMT 1200**  
Business English  
3:3:0  
On Sufficient Demand  
* Prerequisite(s): ENGH 1000 or equivalent knowledge  
For all those desiring to improve business English skills. Studies current usage of English grammar, including parts of speech, syntax, and punctuation. Emphasizes business usage. Lab access fee of $32 for computers applies.

**MGMT 1250**  
Principles of Leadership  
3:3:0  
Fall, Spring  
Required course for integrated studies degree students with an emphasis in leadership. Overviews principles of leadership. Provides students with information on successful leadership styles. Includes lectures, videos, cases, group activities, and class discussion. Lab access fee of $32 for computers applies.

**MGMT 2030**  
Women in Business  
3:3:0  
Fall, Spring  
* Prerequisite(s): ENGL 1010  
Explores the foundations of women in business today. Discusses the opportunities, challenges, and solutions of women as employees, managers, and leaders within all types of organizations. Includes topics such as opportunities for success, work-life issues, gender differences and role development, organizational culture and diversity, the glass ceiling and other barriers to success, career development, developing leadership, personal goals and ambitions, leadership styles, mentoring and coaching, and women in business professions. Includes lecture, in-class and online discussions, guest speakers, group activities, case studies, presentations, and written assignments.

**MGMT 2110**  
Interpersonal Communication  
3:3:0  
Fall, Spring  
Examines the role of communication in professional relationships. Includes the history of interpersonal communication research and theory and applications such as negotiation, conflict management, listening, and assertiveness. May be delivered online.

**MGMT 2240**  
Business Quantitative Analysis  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): MATH 1050  
Requirement for bachelor's degrees in the Woodbury School of Business and as a prerequisite course for entrance into any state MBA program. Studies quantitative tools, which aid in decision making. Teaches business specific use of calculus, algebra, and introductory statistics, plus emerging non-linear mathematics (chaos) in business. Uses lectures, videos, online quizzes, online discussions, online tutoring, and problem sets to explain concepts. May be delivered hybrid and/or online. Canvas Course Mats $58/McGraw applies. Lab access fee of $32 for computers applies.

**MGMT 2340**  
Business Statistics I  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): MATH 1050  
Introduces students to a holistic framework for the development of personal effectiveness and peak performance. Reviews principles, processes, and practices used by peak performers in many life disciplines. Offers students a chance to apply many practices and techniques, which they can apply within the many performances arenas of their life. Course fee of $15 applies.
MGMT 258R
Current Topics in International Business
1 to 3:1 to 3:0 Not Offered
* Prerequisite(s): Department Chair Approval
Provides exposure to emerging topics of current interest in international business. Topics vary each semester. May apply a maximum of three hours toward graduation.

MGMT 281R
Cooperative Work Experience
2 to 8:0:10 to 40 Fall, Spring, Summer
* Prerequisite(s): Approval from School of Business Career and Corporate Manager
Provides opportunities to apply classroom theory on the job. Students work as paid employees in a job that relates to their careers while enrolled at the college. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. Six credits may be applied toward graduation. May be graded credit/no credit

MGMT 290R
Independent Study
1 to 3:1 to 3:0 Not Offered
Provides independent study as directed in reading and individual projects. Requests must be submitted for approval by the department. Approval for this program will be coordinated with the instructor. May be repeated for up to three credits.

MGMT 292R
Seminar
1 to 3:1 to 3:0 On Sufficient Demand
Designed to give the student added insight into management principles essential for successful management of a business. Includes guest experts from the field of business. May be repeated for a total of three credits.

MGMT 297H
Honors Seminar in Leadership Development
3:3:0 On Sufficient Demand
Emphasizes factors that impact leadership effectiveness and skill development in organizations. Features lectures on topics such as leadership, participative management, negotiations, team building, and women's issues by local experts in a seminar setting. Includes group interaction and discussions, written summaries and instructor critique of student performance.

MGMT 3000
Organizational Behavior
3:3:0 Fall, Spring, Summer
* Prerequisite(s): MKTG 2200 and University Advanced Standing
Studies behavioral theories and concepts for creating effective organizations. Deals with knowledge of individual, group, and organizational processes and variables focusing on people's attitudes and behaviors in organizational settings. Presents topics on communication, leadership, motivation, conflict management, socialization, team building, decision making, diversity, ethics, and culture. Includes lectures, case studies, oral presentations, written assignments, and group projects. May be delivered hybrid and/or online. Lab access fee of $32 for computers applies.

MGMT 3020
Individual Action and Corporate Social Responsibility
3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ENGL 1010 or ENGL 2010) and University Advanced Standing
Focuses on moral issues in organizations and the role and importance these have in today's complex business environment. Explores the challenges that arise across the spectrum of business activity and studies human conduct in a business context and what constitutes right and wrong. Examines issues of ethics as they apply to business entities, managers, shareholders, customers, society, and other consultants. Focuses on identifying and solving real world ethical dilemmas in business, and evaluates various individual and corporate decision-making models.

MGMT 3070
Total Quality Management
3:3:0 Fall, Spring, Summer
* Prerequisite(s): MGMT 3450, Matriculation into Business Management Bachelor's Degree Program, and University Advanced Standing
Covers universal principles of quality assurance management, mechanics of a quality information system, and quality management practices. Emphasizes system elements, controls, and fitness for use. Includes process charting, quality costing concepts, statistical process control (SPC), sampling, variability, attribute charting, and continuing improvement strategies. May be delivered online. Lab access fee of $32 for computers applies.

MGMT 3170
Entrepreneurship
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 1010 and University Advanced Standing
(Cannot be used as an elective in any Woodbury School of Business bachelor of science degree.) Provides an overview of the process of entrepreneurship with focus on the role of the entrepreneur in identifying, evaluating and developing opportunities. Considers the application of knowledge of the technical, market, financial and human aspects of a business as they relate to the start-up and development of business opportunities. Lab access fee of $32 for computers applies.

MGMT 3180
Small Business Development
3:3:0 Fall, Summer
* Prerequisite(s): ENGL 1010 and University Advanced Standing
Provides a practical and theoretical foundation for managing small and medium sized enterprises with an emphasis on identifying, evaluating and developing opportunities for growth. Covers the basic elements of the business focusing on best practices in the technical, market, financial, and human resource aspects of existing small business as well as the interaction between these elements. Covers legal aspects of operating a business.

MGMT 3190
Entrepreneurship Financing Ventures
3:3:0 Fall
* Prerequisite(s): University Advanced Standing
Provides non-business students an overview of financial modeling for entrepreneurship and small business, as well as the sources and processes involved in financing new ventures. Course teaches financial management, proforma financial statements, cash flow, bootstrapping, and debt and equity financing in an entrepreneurial environment.

MGMT 3200 (Cross-listed with: HM 3200)
Global Tourism
3:3:0 Fall, Spring
* Prerequisite(s): (MKTG 2200 or ENGL 1010 or ENGL 2010) and University Advanced Standing
Studies the history and future of tourism, the impacts (environment, culture, economy) of tourism, and tourist behavior. Includes lectures, case studies, field trips, and guest speakers. Completers should be sophisticated travelers and understand the nature of the world’s largest industry and its impacts on society and national economics.

MGMT 3210 (Cross-listed with: HM 3210)
Convention and Events Management
3:3:0 Fall, Spring
* Prerequisite(s): (ENGL 1010 or ENGL 2010) and University Advanced Standing
Analyzes the meeting, convention, and events industry. Covers the various disciplines of planning including site selection, organizing, budgeting, catering, entertainment, and promotion. Introduces career opportunities through guest speakers who are industry professionals.

MGMT 330G
Survey of International Business
3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ENGL 2010 or ENGL 2020 or MKTG 2200), ECON 2010, and University Advanced Standing
Teaches international business, trade and foreign investment, and theories of international trade. Studies economic development, international investment and international agencies (government and private) that affect international business by informing, regulating or financing. Develops an appreciation of the unpredictable forces of foreign environments. Explores how international businessmen respond to these influences. May be delivered online. Canvas Course Mats $68/McGraw Hill applies.

MGMT 332G (Cross-listed with: COMM 332G)
Cross-Cultural Communications for International Business
3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ENGL 1010 or ENGL 2010) and University Advanced Standing
Required for international business majors and as an elective for all business majors. Discusses today’s business environment which requires work in a multi-ethnic setting. Overviews critical elements that arise from the various cultural backgrounds, which can impact both domestic and international organizations. Proceeds from a management point of view with lessons easily derived for the mid-level manager as well as for line personnel. Concentrates on managerial communications, negotiations, cultural change, and management functions. May be delivered online.
MGMT 3430
Human Resource Management
3:3:0 Fall, Spring, Summer
* Prerequisite(s): MGMT 3000 and University Advanced Standing

Covers labor and management relations, legal issues, job analysis and design, recruiting and selecting, job placement and orientation, training, career planning, EEO, performance appraisal, and employee benefits. Presents tools for the implementation of a human resource management program. Includes class discussions, case studies, videos, oral presentations, written assignments, group projects, and guest speakers. May be delivered hybrid and/or online. Lab access fee of $32 for computers applies.

MGMT 3440
Managing Organizations
3:3:0 Not Offered
* Prerequisite(s): MGMT 3000 and University Advanced Standing

Studies management theory and emphasizes the managerial view of the elements and variables that influence the organization. Examines organizational design and change emphasizing the management tools used in planning, organizing, directing, controlling, and leading, and the coordinating of these factors within organizations. Uses current events as they relate to managing and developing the organization. Includes case analyses, team building exercises, videos, class discussions, group presentations, written assignments, and guest speakers. Lab access fee of $32 for computers applies.

MGMT 3450
Operations Management
3:3:0 Fall, Spring, Summer
* Prerequisite(s): Matriculation into WSB and University Advanced Standing

Focuses on the management of resources for products, production, or services within an organization. Covers project management, supply chain, facility location and layout, forecasting, scheduling, planning, and operational processes. Emphasizes product/service development, supply chain, forecasting, inventory control, quality assurance, and research techniques. May be delivered hybrid and/or online. Canvas Course Mats $68/McGraw applies. Course Lab fee of $10 for operations management simulation applies. Lab access fee of $32 for computers applies.

MGMT 3470
Lean Management Systems
3:3:0 Fall, Spring
* Prerequisite(s): MGMT 3450 and University Advanced Standing

Teaches advanced operations management processes beyond introductory course. Studies process and value stream management. Teaches importance of continuous improvement and other techniques critical to operations management in modern organizations. Integrates hands-on experience in lean thinking processes.

MGMT 3500
Leadership Theory and Application
3:3:0 Spring
* Prerequisite(s): MGMT 1250, (ENGL 2010 or ENGL 2020), and University Advanced Standing

Examines leadership theory and how it applies to real-world situations. Facilitates thinking and dialogue about leaders and the leadership process. Also covers leadership development strategies and approaches for individuals, teams, and organizations. Includes readings, discussions, reflections, experiential activities, guest speakers, written papers, and innovative assignments. Required course for Integrated Studies Degree students with a Leadership emphasis. Lab access fee of $32 for computers applies.

MGMT 3530 (Cross-listed with: LEGL 3530)
Employment and Labor Law
3:3:0 Fall
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Covers employment and labor law, cases, and policy. Includes employment discrimination along with labor relations statutes exploring the link between employment discrimination and traditional labor relations law. Presents tools necessary to formulate and write policy for profit and non-profit organizations. Includes lecture, class discussions, case studies, a service learning project, and guest speakers. Lab access fee of $32 for computers applies.

MGMT 3550
Organization Development
3:3:0 Spring
* Prerequisite(s): ENGL 1010 and University Advanced Standing; MGMT 3430 highly recommended

Studies the process of ensuring skills, knowledge, abilities, and performance of the workforce meet current and future individual, team, and organizational needs. Includes the development, implementation, evaluation activities, interventions, and programs that focus on customized organization development (change), performance management, training and development, career development, and other unique employee or employee group needs.

MGMT 3570
Training and Development
3:3:0 Fall
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing; MGMT 3430 recommended

Studies current models, methods, and skills for training and development designed to improve individual, group, and organizational performance. Examines the organizational role of the training specialist, identifying training needs, maximizing the trainee's learning, evaluating training programs, on-site training methods, off-site training methods, developing and training leaders, management and executive development, and societal concerns. Includes teaching techniques such as lecture, class discussions, small group activities or projects, oral presentations, written assignments, guest speaker, and scholarly dialogue. Includes a semester-long training and development academic service-learning project.

MGMT 3730
Opportunities in Direct Sales
3:3:0 On Sufficient Demand
* Prerequisite(s): University Advanced Standing

Discusses direct sales and the impact on our society. Covers basic terminology of the direct sales industry. Introduces distinctions between legal and illegal activity in the industry. Teaches the history of direct sales, compensation plans, and industry ethics. Analyzes communication skills in the direct sales industry. Explores the unique nature of the relationship between the company and the independent representative. Uses discussion, lecture, presentations and group activities to increase understanding and ability to analyze business under the umbrella of direct sales.

MGMT 3740
Relationship Marketing
3:3:0 On Sufficient Demand
* Prerequisite(s): MGMT 3730 and University Advanced Standing

For students interested in understanding relationship marketing as it applies to the direct selling industry. Focuses on the relationship between companies and their independent sales forces. Covers business ethics, compensation, structures, company conventions, distributor services, and online community building. Uses lectures, discussions, guest speakers, analyses in the field, and presentation of analysis in both oral and written format.

MGMT 4000
Compensation and Benefits
3:3:0 Fall
* Prerequisite(s): MGMT 3430 and University Advanced Standing; MGMT 3530 recommended

Studies the creation and administration of compensation systems and benefit packages for organizations. Draws heavily on material from MGMT 3430 and research on compensation and benefits systems currently in use in organizations. Covers benefits bidding and contracting based on employer limitations and employee needs. Involves both verbal and quantitative skills. Lab access fee of $32 for computers applies.

MGMT 4200
Entrepreneurship Technology-based Opportunity Identification
3:3:0 Fall, Spring
* Prerequisite(s): MGMT 3170 and University Advanced Standing

Utilizes the identification and evaluation of business opportunities in start-up or existing business organizations. Covers commercialization of technology based opportunities, the interface between the application of technologies and market needs, with a strong emphasis on financial viability. Covers all areas of business operations. Lab access fee of $32 for computers applies.
MGMT 4210
Entrepreneurship Personal Development
3:3:0  Spring
* Prerequisite(s): MGMT 3170 and University Advanced Standing
Deals with the personal and interpersonal development of entrepreneurs and other business professionals. Addresses issues and provides specific guidance in such areas as business and personal financial strategies, business and family interpersonal relationships, networking and human resource management strategies, and professional business- and self-image.

MGMT 4300
Entrepreneurship Business Planning
3:3:0  Spring
* Prerequisite(s): (MGMT 4200 or MGMT 3170), Matriculation into the Woodbury School of Business, and University Advanced Standing
Focuses on developing every element needed to create an actionable business plan, with a special emphasis on business model generation, marketing, and finance. Emphasizes writing a comprehensive business plan and should be able to competently manage a small business or start their own with a minimum risk of failure. May be delivered hybrid. Lab access fee of $32 for computers applies.

MGMT 4400
New Venture Financing
3:3:0  Spring
* Prerequisite(s): FIN 3100, matriculation into the BS Entrepreneurship Degree Program, and University Advanced Standing
Covers advanced concepts and skills in entrepreneurship/ small business management. Emphasizes how new and emerging companies are financed. Applies functional tools to case situations. Lab access fee of $32 for computers applies.

MGMT 4450
Entrepreneurship Enterprise Formation
3:3:0  Spring
* Prerequisite(s): (MGMT 4200 or MGMT 3170), BS Entrepreneurship Degree Program, and University Advanced Standing
Provides an integrated, engaged learning opportunity in entrepreneurship through the development of a business opportunity. Focuses on creating and managing the formation of a business enterprise from the formation of a legal entity to launching a product of service and creating a financial model. Emphasizes documenting the process in a business model and/or a complete business plan.

MGMT 4455
New Venture Consulting
3:3:0  Fall
* Prerequisite(s): MGMT 3170, matriculation into the Woodbury School of Business Bachelor of Science in Entrepreneurship program, and University Advanced Standing
Provides an engaged learning opportunity for business students interested in learning how small- and medium-sized businesses work by consulting with community-based entrepreneurs and assisting them with the identification, evaluation, and/or development of their business opportunities. Includes projects that cover and examine all functional areas of business and the interaction between them. Covers consulting processes and strategies as well as provide tools and techniques for developing business models and assessing opportunities.

MGMT 458R
Advanced Topics in International Business
1 to 3:1 to 3:0  On Sufficient Demand
* Prerequisite(s): Department Chair Approval and University Advanced Standing
Provides exposure to emerging topics of current interest in international business. Topics vary each semester. May apply a maximum of 6 hours toward graduation.

MGMT 4610
Workforce Planning and Staffing
3:3:0  Fall
* Prerequisite(s): Matriculation into the Business Management Bachelor's Degree Program and University Advanced Standing; MGMT 3430 and MGMT 3530 recommended
Addresses the key HR functions of planning, staffing, and maintaining a quality workforce. Includes identifying critical specifications for filling positions, recruiting a pool of talent, developing selection methods, and creating desirable person/job matches. Lab access fee of $32 for computers applies.

MGMT 4620
Developing Business in China
3:3:0  Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020), Junior Standing, and University Advanced Standing
Introduces the key factors driving the economy and companies doing business in and with China. Compares the institutions and characteristics of the Chinese economy and business system. Identifies issues facing managers of western corporations producing and selling in the Chinese market, sourcing from Chinese industry and competing with Chinese rivals.

MGMT 481R
Internship
1 to 8:0:5 to 40  Fall, Spring, Summer
* Prerequisite(s): Approval from School of Business Career and Corporate Manager and University Advanced Standing
For upper-division students working toward a Bachelor of Science Degree in Business Management. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. No more than three credit hours of internship work experience will apply toward graduation in any Business Management Specialization; may be repeated for a maximum of 8 credits. May be graded credit/no credit.

MGMT 4840
Management Consulting
3:3:0  Fall, Spring
* Prerequisite(s): FIN 3100 with a minimum grade of B-, Instructor approval, and University Advanced Standing
* Corequisite(s): MGMT 4860
After having been trained in the consulting process and client management strategies, teams of students will work together with a specific, recruited, local company to develop a business project. Applying knowledge and skills from the business curriculum, student teams will gather needed data, analyze it, problem-solve, and craft recommendations in order to improve competitive implementation and meet firm objectives.

MGMT 4860
Business Strategy Formulation and Implementation
4:4:0
* Prerequisite(s): FIN 3100, MKTG 3600, MGMT 3000, MGMT 3450, Senior standing, Matriculation into a School of Business bachelor's degree program, and University Advanced Standing
The capstone course for the Bachelor's Degree in Business Management. Provides a program of study and the necessary lab work to integrate major functional management area skills using case analysis and methods and a competitive business simulation while instilling strategic management concepts and thinking processes. Includes written and oral reports, lectures, class discussions, group projects, simulations, and when appropriate, utilizes videos and guest speakers. May be delivered online. Canvas Course Mats $68/McGraw applies.

MGMT 4870
International Management
3:3:0  Spring
* Prerequisite(s): MGMT 3000, MKTG 3600, Matriculation into the Woodbury School of Business, and University Advanced Standing
Examines in depth the leading forces and trends shaping the opportunities and challenges confronted by multinational corporations (MNCs) as they assemble, grow, mature, coordinate and control their international network of subsidiaries, joint-ventures, alliances, and supplier firms. Examines the strategies pursued by MNCs in response to opportunities and challenges in this process, consistent with their distinctive strengths and weaknesses; and theories. Contrasts the models and strategic frameworks relating these strategies and forces/trends. Includes group project (written and oral presentations) on a multinational corporation developing or maturing its network in a selected market. Canvas Course Mats $68/McGraw applies.

MGMT 490R
Independent Study
1 to 3:1 to 3:0  On Sufficient Demand
* Prerequisite(s): Department Chair Approval and University Advanced Standing
For bachelor's degree students and other interested persons. Offers independent study as directed in reading, in individual projects, etc., in the area of marketing and/ or international business at the discretion and approval of the department chairperson. May apply a maximum of 6 hours toward graduation.
MGMT 492R
Human Resource Seminar
1:1:0
* Prerequisite(s): Department Chair Approval and University Advanced Standing

Presents guest speakers on emerging human resource (HR) research and issues: strategy, international, culture, legal issues, planning and job analysis, recruitment and selection, performance management, compensation and benefits, and career development. May be repeated for 2 credits toward graduation.

MGMT 493R
Entrepreneurship Lecture Series
1:1:0
Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing

Presents lectures by guest speakers on current entrepreneurship issues and topics. Speakers and topics vary each semester. May apply a maximum of 3 credits toward graduation. Lab access fee of $32 for computers applies.

MGMT 494R
Seminar
0.5 to 3:0.5 to 3:0
On Sufficient Demand
* Prerequisite(s): University Advanced Standing

Provides short courses, workshops, and special programs in business management, leadership, or current business topics. Repeatable for up to 3 credits toward graduation.

MGMT 495R
Executive Lecture Series
1:1:0
Fall, Spring
* Prerequisite(s): University Advanced Standing

Consists of lectures presented by guest speakers on current business topics concerning the student, community, nation, business world, etc. May be required in business programs; see specific program listings for details. May apply a maximum of 3 credits toward graduation.

MGMT 497H
Business Honors Seminar
1 to 3:1 to 3:0
On Sufficient Demand
* Prerequisite(s): Permission required, 3.4 GPA or higher, senior status, and University Advanced Standing

Provides in-depth exposure to an issue of current interest in business by a local expert in a seminar setting. Includes group interaction and discussion, critical analysis of readings, and critique of student writings. Topics vary each semester.

MGMT 4980
Business Research Seminar
3:3:0
On Sufficient Demand
* Prerequisite(s): Instructor Approval and University Advanced Standing

Studies the process of researching and writing for scholarly publication. Includes understanding the concepts of scholarly conversation, managing scholarship, choosing a topic, identifying appropriate journals, using exemplars, creating a title and abstract, making an outline, developing an introduction and conclusion, writing the body of the paper, and then revising, submitting, and finally publishing in a scholarly journal.

MGMT 6200
Effectively Managing and Facilitating Teams
1.5:1.5:0
Fall
* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Develops students' ability to function in team-based environments, which are increasingly part of modern organizations. Analyzes environments and determines what actions are needed to increase the effectiveness of a team. Enhances their ability to solve interpersonal problems and remove common roadblocks that limit a team's ability to achieve organizational objectives.

MGMT 6250
Managing Human Capital
1.5:1.5:0
Not Offered
* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Enhances students' leadership and management skills. Prepares students to lead high-performing, successful individuals, teams and, firms, in a dynamic business environment. Deepens students' understanding of themselves and others, allowing them to be more effective at managing their own careers, and at leading others to be more productive organizational members.

MGMT 6450
Operations Management
3:3:0
Fall
* Prerequisite(s): Acceptance in the MBA program

Analyzes operations and production activities. Reviews basic processes. Analyzes managing a production or service organization, evaluation of concepts such as inventory control, production control, procurement, quality management, planning, and forecasting.

MGMT 6500
Managing Individuals and Groups
3:3:0
Fall
* Prerequisite(s): Acceptance in the MBA program

Exposes students to the concepts, theories, and practices related to the behavior and attitudes of people in organizations. Examines issues at the individual, group, and organizational levels, including topics such as individual differences, motivation, leadership, human resource management, teamwork, and organizational design, and structure.

MGMT 6740
Operations and Supply Chain Management
3:3:0
* Prerequisite(s): MGMT 6450

Utilizes advanced topics in operations research which develop decision making processes for complex organizations and systems. Identifies creative methods to analyze problems, develop alternative processes for decision making, and optimum processes for business and organizations.

MGMT 6800
Global Business Strategy
3:3:0
Summer
* Prerequisite(s): Acceptance in the MBA program

Integrates case analysis considered from the CEO's perspective. Evaluates global competitiveness, strategic assessment, policy development, and strategy implementation.

MGMT 6900
Business Ethics and Social Responsibility
3:3:0
Spring
* Prerequisite(s): Acceptance in the MBA program

Focuses on ethical issues in organizations and the role and importance these have in today's complex business environment. Explores the challenges that arise across the spectrum of business activity and investigates the proposition that businesses have a social responsibility beyond that of profit, growth, and wealth creation. Examines issues of ethics as they apply to business entities, managers, shareholders, customers, society, and other constituents. Focuses on identifying and solving real world ethical dilemmas in business, and evaluates various individual and corporate decision-making models.

MGMT 6910
Designing Business
1.5:1.5:0
Fall
* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Provides an opportunity to integrate the functional areas of business using a simulation, a comprehensive business case, or a consulting project with a community-based organization.

MGMT 6930
International Engagement
1.5:1.5:0
* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Provides an integrated, engaged, learning opportunity for students to experience differences in culture and business operations of another country through the completion and reflection of an international consulting project or case studies, and a possible international experience. Projects or case studies will require the integration of functional areas of business in an international setting, and will highlight how these functions are interrelated.
MGMT 6940
MBA Consulting Project
3:3:0
* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Utilizes community consulting to focus on business development through identifying, evaluating, and executing business opportunities within new and existing businesses. Implements consulting processes and strategies, and allows students to practice tools and techniques for developing business models.

MGMT 6950
Ethical Decision Making
1.5:1.5:0
* Prerequisite(s): Acceptance in the MBA program

Introduces advanced concepts, frameworks, and models for ethical decision making to prepare students to be able to apply these in later coursework and in their business careers.

MGMT 6960
Capstone Engaged Learning Project
3:3:0 Summer
* Prerequisite(s): MGMT 6900

Introduces students to an engaged learning project for the community. Involves research. Teaches the development of a financial plan. Requires working in teams, identifying a project, implementing a plan of action, and communicating results in written and oral form.

Microbiology (MICR)

MICR 2060 BB
Microbiology for Health Professions
3:3:0 Fall, Spring, Summer
* Prerequisite(s): BIOL 1010 or BIOL 1610, ENGL 1010 with a C- or higher in each. CHEM 1110 or higher is highly recommended
* Corequisite(s): MICR 2065

Studies the history of microbiology. Explores bacterial, fungal, parasitic, and viral diseases and their causes. Discusses the classification, physiology, genetics, and physical and chemical control of microbes. Emphasizes clinical applications. Designed for those planning a career in the health professions such as nursing, dental hygiene, medicine, pharmacy, and dentistry.

MICR 2065
Microbiology for Health Professions Laboratory
1:0:2 Fall, Spring, Summer
* Prerequisite(s): BIOL 1010 or BIOL 1610, ENGL 1010. CHEM 1110 highly recommended.
* Corequisite(s): MICR 2060

Studies bacterial, fungal and to a limited degree, parasitic organism through hands-on laboratory experience. Teaches techniques of microorganism identification and studies their physiology. Examines the physical and chemical control of microorganisms. Emphasizes clinical and environmental applications. Designed for those planning a career in the health professions Course Lab fee of $44 for materials, lab applies.

MICR 3200
Emerging and Re-Emerging Diseases and Zoonoses
3:3:0 On Sufficient Demand
* Prerequisite(s): BIOL 1620 and (MICR 2060 or MICR 3450) with a C- or higher in each and University Advanced Standing

Utilizes the most current infectious disease entities as examples for new (emerging) or old (re-emerging) diseases currently affecting mankind. Also discusses zoonotic diseases (those transmissible from animals to humans and vice-versa) in detail. Emphasizes the underlying mechanisms of disease, and includes fundamental aspects of virology, bacteriology, and parasitology. Also covers fundamental concepts in epidemiology, how the public health system deals with these diseases once they have been identified and instances where the public health system has failed in controlling these diseases and the reasons for these failures. Investigates historical aspects of infectious diseases. Requires a written paper and a presentation on the disease entity of the student's choosing.

MICR 3450
General Microbiology
3:3:0 Fall
* Prerequisite(s): BIOL 3400 with a C- or higher and University Advanced Standing; BIOL 3600 recommended
* Corequisite(s): MICR 3455

Covers taxonomy, physiology and genetics of prokaryotes (bacteria, Archaea), viruses and eukaryotic pathogens. Introduces industrial microbiology, biotechnology, and immunology and the biochemical basis of infectious diseases. Designed for biology majors who desire an in-depth coverage of microbiology.

MICR 3455
General Microbiology Laboratory
1:0:2 Fall
* Prerequisite(s): BIOL 3400 and University Advanced Standing; BIOL 3600 recommended
* Corequisite(s): MICR 3450

Hands-on laboratory procedures that studies the methods of taxonomy and distinguishes physiology and genetics of prokaryotes (bacteria, Archaea), viruses and eukaryotic pathogens. Introduces methods used in industrial microbiology, biotechnology, and immunology and the biochemical basis of infectious diseases. Designed for biology majors who desire an in-depth coverage of microbiology. Course Lab fee of $60 for materials, lab applies.

MICR 4300
Pathogenic Microbiology
4:3:2 Spring
* Prerequisite(s): [MICR 3450 or (MICR 2060 with instructor consent)] and University Advanced Standing

Discusses fundamentals of immune mechanisms, pathogenesis, replication, and infection. Explores bacterial, viral, fungal, protozoan, and helminth pathogens. Discusses identification, control, and treatments. Includes weekly laboratory. Course Lab fee of $25 applies.

MICR 4500
Virology
3:3:0 Fall
* Prerequisite(s): BIOL 3400 and [MICR 3450 or (MICR 2060 with instructor consent)] and University Advanced Standing; BIOL 3600 recommended

Examines the fundamentals of virology. Covers viral structure, biochemistry, genomics, viral multiplication cycles in prokaryotic and eukaryotic cells, and techniques used in viral studies. Also discusses viral diseases, transmission, therapy, evolution, and epidemiology.

Military Science (MILS)

MILS 1200
Introduction to Leadership Excellence I
2:2:0 Fall
* Corequisite(s): MILS 145R

Presents historical overview and development of military value systems and philosophies. Studies individual leadership styles, organization and time management, and writing skills. Includes ethics and code of an officer, role of an officer in the military, drill and ceremonies, fire team tactics, map reading, and basic rifle marksmanship. Lab required.

MILS 1210
Introduction to Leadership Excellence II
2:2:0 Spring
* Prerequisite(s): MILS 1200 or Department Approval
* Corequisite(s): MILS 145R

Compares and analyzes leadership styles found in the U.S. Army, as well as business, academic, and government organizations. Studies Army organization, active and reserve forces; winter survival, advanced fire-team and aggressor tactics. Lab required. May be delivered hybrid.

MILS 143R
Military Fitness
1:0:3 Fall, Spring
For Army ROTC students and all other interested students. Uses the Army Physical Fitness Test to evaluate the student's performance and improvement in the areas of flexibility, strength, and endurance. Includes instruction in foot care and road marching techniques. Repeats are required. See advisor for details.

MILS 145R
Introduction to Leadership Dynamics and Techniques
1:0:3 Fall, Spring
* Prerequisite(s): Department Approval

Leadership lab for UVU Army ROTC students and other students interested in the study of leadership. Studies the dynamics of leadership of groups and individuals in various environments. Provides opportunities for students to apply leadership principles and techniques in challenging situations and conditions. Required lab for students enrolled in UVU Military Science 1000- and 2000-level classes. Students not enrolled in Army ROTC may take this class up to six credits with department approval.
MILS 2050
Small Unit Combat Tactics
2:2:0
Introduces cadets to the personal challenges and competencies that are critical for effective leadership by introducing cadets to the personal development of life skills, critical thinking, goal setting, time management, and physical/mental fitness.

MILS 2200
Advanced Organizational Leadership I
2:2:0  
* Prerequisite(s): MILS 1210 or Dept. Approval  
* Corequisite(s): MILS 245R
Builds on skills and fundamentals learned in MILS 1200 and 2210. Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or any career field they choose.

MILS 2210
Advanced Organizational Leadership II
2:2:0  
* Prerequisite(s): MILS 2200 or Dept. Approval  
* Corequisite(s): MILS 245R
Builds on skills and fundamentals learned in MILS 2200 and 1210. Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose.

MILS 245R
Leadership Studies
1:0:3  
* Prerequisite(s): MILS 145R or instructor approval
Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose. May be repeated for up to four credits with departmental approval.

MILS 250R
Current Topics in Military Science
3:0
Provides exposure to emerging issues of current interest in military science. Topics vary each semester. May be repeated for a maximum of 9 credits toward graduation.

MILS 3200
Small Unit Leadership I
3:3:0  
* Prerequisite(s): MILS 2210  
* Corequisite(s): MILS 345R
Prepares for attendance at National Advanced Leadership Camp. Studies land navigation, squad and platoon tactics, combat operations, physical fitness, and physical leadership. Lab required.

MILS 3210
Small Unit Leadership II
3:3:0  
* Prerequisite(s): MILS 3200  
* Corequisite(s): MILS 345R
Prepares cadets to attend National Advanced Leadership Camp. Prepares for successful completion of camp. Studies land navigation, squad and platoon tactics, combat operations, physical fitness, and physical leadership. Lab required.

MILS 345R
Advanced Leadership Dynamics and Techniques
1:0:3  
* Prerequisite(s): Departmental Approval
Leadership lab for UVU ROTC students and other students interested in the study of leadership. Studies the dynamics of leadership of groups and individuals in various environments. Provides opportunities for students to apply leadership principles and techniques in challenging situations and conditions. Required lab for students enrolled in UVU Military Science 3000- and 4000-level classes. Students not enrolled in Army ROTC may take this class four times for credit with departmental approval.

MILS 4200
The Profession of Arms I
3:3:0  
* Prerequisite(s): Departmental Approval  
* Corequisite(s): MILS 445R
Prepares the prospective officer for initial training and subsequent assignment into the U.S. Army. Includes overview of U.S. Army training management, military writing, administration, logistics, professionalism, and ethics. Lab required.

MILS 4210
The Profession of Arms II
3:3:0  
* Prerequisite(s): MILS 4200 or Departmental Approval  
* Corequisite(s): MILS 445R
Prepares the prospective officer for successful completion of Army assignments. Includes advanced U.S. Army leadership training, training management, military justice and law, pre-commissioning orientation, military briefing skills, and junior officer leadership.

MILS 445R
Transition to Officership
1:0:3  
* Prerequisite(s): Departmental Approval
Leadership Lab for UVU Senior Army ROTC students. Studies the dynamics of leadership of groups and individuals in various environments. Provides opportunities for students to refine leadership skills in preparation for service with the United States Army. Required lab for students enrolled in UVU Military Science 4000-level classes. ROTC students may take this course up to 4 credits with departmental approval.

MILS 4500
Advanced Leadership and Operations
3:3:0  
* Prerequisite(s): MILS 3200, MILS 3210, MILS 4200 and MILS 4210
Prepares the prospective officer for successful completion of Army assignments. Includes advanced understanding of U.S. Army operations and training, Officer, Non-Commission Officer and enlisted personnel management, and the use of the Military Decision Making Process.

Marketing (MKTG)

MKTG 2200
Written Business Communication
3:3:0  
* Prerequisite(s): Department Chair Approval
Teaches written correspondence and business presentations skills. Teaches students to plan, develop, deliver, and evaluate business presentations using informative and persuasive formats in diverse settings using a variety of media. Provides additional presentation software training. Lab access fee of $32 for computers applies.

MKTG 2390
Professional Business Presentations
3:3:0  
* Prerequisite(s): Department Chair Approval
For students and others interested in developing effective business presentations skills. Teaches teachers to plan, develop, deliver, and evaluate business presentations using informative and persuasive formats in diverse settings using a variety of media. Provides additional presentation software training. Lab access fee of $32 for computers applies.

MKTG 259R
Current Topics in Marketing
1 to 3:0 to 15  
* Prerequisite(s): Department Chair Approval
Provides exposure to emerging topics of current interest in marketing. Topics vary each semester. May apply a maximum of three hours toward graduation.

MKTG 281R
Marketing Cooperative Work Experience
1 to 3:0 to 15  
* Prerequisite(s): Department Chair Approval
Provides opportunities to apply classroom theory on the job. Students work as paid employees in a job that relates to their careers while enrolled at the college. Credit is determined by the number of hours a student works during the semester. Completes individually set goals. May be repeated for a maximum of 6 credits toward graduation. May be graded Credit/No Credit.

MKTG 290R
Independent Study
0.5 to 3:0.5 to 3:0  
* Prerequisite(s): Department Chair Approval
Provides independent study as directed in reading and individual projects specifically related to the Marketing field at the discretion and approval of the Dean and/or Department Chair. May be repeated for a maximum of 6 credits toward graduation.
MKTG 3220 Retail Management 3:3:0 Fall, Spring
* Prerequisite(s): MKTG 3600 and University Advanced Standing
Combines theoretical concepts with practical applications from a strategic management perspective. Includes lectures and discussions of current events within the retail industry to provide the primary basis for the integration of course materials with actual retail enterprise operations. Includes participation in a number of experiential learning exercises such as group and individual case analyses, outside research on the retail industry and specific retail firms, class presentations, guest speakers, and quizzes on selected retailing issues and practices. Lab access fee of $32 for computers applies. Canvas Course Mats $68/ McGraw applies.

MKTG 335G International Marketing 3:3:0 Fall, Spring
* Prerequisite(s): MKTG 3600 and University Advanced Standing
Presents the problems of marketing in the international marketplace and how marketers approach and solve them. Focuses on concepts and principles by teaching the theory and practice of international marketing through the use of practical examples and actual case studies of international (both US and foreign) marketing organizations. Includes international marketing position of the US, market entry strategies, analysis of foreign markets, culture and marketing, product design, pricing, distribution, promotion and sales. May be delivered online. Lab access fee of $32 for computers applies.

MKTG 3390 Business and Professional Presentations 3:3:0 Fall, Spring
* Prerequisite(s): MKTG 2200 and (complete one of the following: IM 2400, IM 2010, IM 101IB, or business computer proficiency or Instructor Approval) and University Advanced Standing
For those interested in developing business and professional presentation skills. Emphasizes critical thinking as students plan, develop, deliver, and evaluate presentations using informative and persuasive formats in diverse settings using a variety of media. Incorporates aspects of multimedia. Successful completers should make business presentations professionally and confidently. Lab access fee of $32 for computers applies.

MKTG 3460 Internal Marketing and Corporate Imaging 3:3:0
* Prerequisite(s): MKTG 3600 and University Advanced Standing
Introduces students to the fundamentals of Internal Marketing and Corporate Imaging. Focuses on internal marketing strategy, critical incident management, organizational change, employer brand, cause marketing, corporate citizenship, internal business communication and event management. Includes other topics, such as contingency planning, organizational culture, employee programs and training, motivation and internal reward programs. Includes case analysis, lectures, class discussions, group work and evaluation, videos, oral presentations, written assignments and guest speakers.

MKTG 3600 Principles of Marketing 3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Required for most School of Business Bachelor of Science Degree students and is elective credit for other majors. Studies consumers, markets, and environments from the perspective of the marketing manager. Covers consumer behavior, marketing research, product management, and channels of distribution. Explores pricing, advertising, and personal selling. Includes case analysis, lectures, class discussions, videos, oral presentations, written assignments, and guest speakers. May be delivered hybrid and/or online. Lab access fee of $32 for computers applies.

MKTG 3620 Consumer Behavior 3:3:0 Fall, Spring
* Prerequisite(s): MKTG 3600 and University Advanced Standing
Includes an analysis of consumer spending and saving habits, product preferences, shopping behavior, leisure time patterns, and social change. Explores the influence of advertising, selling and fashion trends. Includes lectures, class discussions, videos, projects, case analyses, oral presentations, written assignments, and guest speakers. Lab access fee of $32 for computers applies. Canvas Course Mats $68/McGraw.

MKTG 3630 Services Marketing 3:3:0 On Sufficient Demand
* Prerequisite(s): MKTG 3600 and University Advanced Standing
Presents skills and attitudes necessary to market services and to provide good customer service. Emphasizes the marketing skills involved in marketing services and basic marketing concepts, including positive customer relations, effectively handling customer complaints, and sound customer service procedures. Completers should develop successful service marketing strategies that can be applied in a business organizational setting. Includes lectures, guest speakers, videos, role plays, case analysis, oral presentations, and written assignments. Lab access fee of $32 for computers applies.

MKTG 3640 Sales Management 3:3:0
* Prerequisite(s): MKTG 3600, MKTG 3650, and University Advanced Standing
Studies issues related to planning for, organizing, staffing, motivating, directing, and controlling a sales force and related sales territories. Addresses both international and domestic perspectives. Gives special emphasis to the efficiency (cost consideration) and effectiveness (satisfaction consideration) of sales management.

MKTG 3650 Professional Selling 3:3:0 Fall, Spring
* Prerequisite(s): MKTG 3600 and University Advanced Standing
Emphasizes theoretical skills in the personal selling process and the management of a sales force. Studies the recruiting, training and supervising of salespersons, organization of territories, compensation schemes, and forecasting. Includes lectures, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Lab access fee of $32 for computers applies.

MKTG 3660 Digital Marketing 3:3:0 Fall, Spring
* Prerequisite(s): MKTG 3600 and University Advanced Standing
Provides an introduction to the many business uses of the Internet to create competitive advantage. Features discussions of e-business strategic components and practice with Web page exercises. Uses guided exercises to explore the Net, both in and out of class. Includes projects, research, and Net use in a particular industry. Emphasizes the sharing of concepts discussed in lectures, class activities, the assigned readings, and group projects. Lab access fee of $32 for computers applies.

MKTG 3670 Advertising and Promotion 3:3:0 Fall, Spring
* Prerequisite(s): MKTG 3600 and University Advanced Standing
Provides an understanding of advertising, its purposes, and production. Includes sequence of activities in preparing productive, persuasive marketing and advertising campaign plans. Covers the social, legal, and economic considerations involved in the campaign planning process. Includes lectures, class discussions, guest speakers, videos, and student presentations. Lab access fee of $32 for computers applies.

MKTG 3680 Marketing with Social Media 3:3:0
* Prerequisite(s): MKTG 3600 and University Advanced Standing
Teaches students how to use social media platforms to market products and services. Includes the creation and marketing of a blog using WordPress and engaging with a local small business to write and execute a social media marketing campaign. Teaches the fundamentals of social media marketing and the most popular platforms like WordPress, Facebook, Twitter, Pinterest, and LinkedIn.

MKTG 3690 Advanced Digital Marketing and Analytics 3:3:0
* Prerequisite(s): MKTG 3600 and University Advanced Standing
Teaches advanced digital marketing concepts and skills, including advanced training in web analytics search engine optimization, pay-per-click advertising, and email marketing. Includes a live client engagement and preparation for Google certifications.
MKTG 3890
Career Preparation
2:2:0 Fall, Spring, Summer
* Prerequisite(s): MKTG 2200 and University Advanced Standing

Emphasizes the development of effective techniques for successfully locating, applying for, securing employment, and advancing in a career. Provides opportunities to do a self-analysis, research industry and job opportunities, and internalize appropriate etiquette in a variety of business and social settings. Includes demonstration, role play, and application exercises. May be delivered online. Lab access fee of $32 for computers applies.

MKTG 4220
Management Communication
3:3:0 Spring
* Prerequisite(s): MKTG 2200, Matriculation into the Bachelor's Degree Program, and University Advanced Standing

Studies elements of communication in management. Concentrates on written and oral communication in business settings and includes communicating electronically, managing conflict, and dealing with change. Lab access fee of $32 for computers applies.

MKTG 4400
Competitive Intelligence
3:3:0 On Sufficient Demand
* Prerequisite(s): Matriculation into any Woodbury School of Business Degree Program and University Advanced Standing

Teaches Competitive Intelligence (CI), the study of processes and techniques leading to business analysis applied to industry and company investigation. Overviews the Competitive Intelligence process including information collection, intelligence analysis, and intelligence process assessment.

MKTG 459R
Advanced Topics in Marketing
1 to 3:1 to 3:0
* Prerequisite(s): Department Chair Approval and University Advanced Standing

Provides exposure to emerging topics of current interest in marketing. Topics vary each semester. May apply a maximum of 6 hours toward graduation.

MKTG 4600
Marketing Research
3:3:0 Fall, Spring
* Prerequisite(s): MKTG 3600, MGMT 2340, Matriculation into the Woodbury School of Business, and University Advanced Standing

Covers managerial uses of marketing research in formulating marketing strategy. Includes determination of situations requiring research, appraisal of alternative research methods, and evaluation of studies. Presents theoretical concepts in research methodology. Includes lectures, class discussions, group projects, case analyses, oral presentations, written assignments, and speakers. Lab access fee of $32 for computers applies.

MKTG 4610
Sales Analytics
3:3:0
* Prerequisite(s): MKTG 3650 and University Advanced Standing

Provides a diagnosis of sales problems and data-driven solutions including decision support, SPSS modeling, and an introduction to data mining. Covers sales forecasting, correlation, regression, and survival analysis, CRM analysis, and territory analysis and design. Presents analytical decisions such as independent versus direct representation, compensation effects, and account customer life-time value.

MKTG 4650
Marketing Management
3:3:0 Fall, Spring
* Prerequisite(s): MKTG 3620 and University Advanced Standing; For Marketing Majors only or with instructor's permission
* Prerequisite(s) or Corequisite(s): MKTG 4600

Presents detailed marketing analysis skills, planning and control of various marketing mix variables, target markets, and the marketing environment using both oral and written case studies. Includes lectures, class discussions, videos, projects, case analyses, oral presentations, written assignments, and guest speakers.

MKTG 481R
Marketing Internship
1 to 3:0 to 15 Fall, Spring, Summer
* Prerequisite(s): Departmental Approval and University Advanced Standing

For upper-division students working toward a Bachelor of Science Degree in Marketing. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

MKTG 482R
Sales Internship
1 to 8:0 to 5 to 40
* Prerequisite(s): Departmental Approval and University Advanced Standing

For upper-division students working toward a Bachelor of Science Degree in Marketing. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

MKTG 483R
Digital Marketing Internship
1 to 8:0 to 5 to 40
* Prerequisite(s): Departmental Approval and University Advanced Standing

For upper-division students working toward a Bachelor of Science Degree in Marketing. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

MKTG 490R
Independent Study
1 to 3:1 to 3:0
* Prerequisite(s): Department Chair Approval and University Advanced Standing

Provides independent study as directed in reading and individual projects specifically related to the Marketing field at the discretion and approval of the Dean and/or Department Chair. May be repeated for a maximum of 6 credits toward graduation.

MKTG 494R
Seminar
0.5 to 3:0.5 to 3:0
* Prerequisite(s): Department Chair Approval and University Advanced Standing

Provides short courses, workshops, and special programs in business management, leadership, or current business topics. Repeatable for up to six credits toward graduation.

MKTG 4980
Research Seminar in Marketing
3:3:0
* Prerequisite(s): Department Chair Approval and University Advanced Standing

Studies the process of researching and writing for scholarly publication. Includes understanding the concepts of scholarly conversation; managing scholarship; choosing a marketing topic; identifying appropriate journals; using exemplars; creating a title and abstract; making an outline; developing an introduction and conclusion; writing the body of the paper; and then revising, submitting, and finally publishing in a scholarly journal.

MKTG 6600
Marketing Strategy
3:3:0 Summer
* Prerequisite(s): Acceptance in the MBA program

Analyzes current marketing management problems. Emphasizes marketing concepts, research techniques, decision making, and marketing strategy development.

MKTG 6610
Competitive Intelligence and Analysis
1.5:1.5:0
* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Analyzes competition and competitiveness within a business environment. Offers expertise in competitive intelligence and analysis tools. Additionally, provides for a comprehensive approach to competitive structures and provides solutions for competitive response strategies.

MKTG 6810
Identifying and Leveraging Customer Opportunities
1.5:1.5:0
* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Analyzes current marketing management problems. Emphasis marketing concepts, research techniques, decision making, and marketing strategy development.
**Course Descriptions**

### Music (MUSC)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
<th>Term</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 101</td>
<td>Fundamentals of Music</td>
<td>3:3:0</td>
<td>Fall, Spring</td>
<td>Prerequisite(s): MUSC 1110 and MUSC 250R</td>
<td>Studies the fundamentals of music theory such as pitch notation, meter, rhythm, time signatures, intervals, major and minor scales, key signatures, and triads. Examines the contributions of European, African, Latin, and other cultural traditions on American popular music. Studies the influences of mass media and technology. Examines the marketing and dissemination of popular music by the music industry. Studies the role of popular music as a symbol of race, class, gender, and generation. Fulfills the Fine Arts general education distribution requirement and addresses the Intellectual and Practical Skills Foundation essential learning outcomes of qualitative reasoning. May be delivered online.</td>
</tr>
<tr>
<td>MUSC 1030</td>
<td>American Popular Music</td>
<td>3:3:0</td>
<td>Fall, Spring</td>
<td>Prerequisite(s): MUSC 1130 and MUSC 250R</td>
<td>Provides training in the aural identification of intervals and triads. Practices rhythmic dictation in simple meters, and melodic dictation of simple melodies. Studies the solfège movable</td>
</tr>
<tr>
<td>MUSC 1050</td>
<td>Beginning Piano I</td>
<td>2:2:0</td>
<td>Fall, Spring</td>
<td>Prerequisite(s): MUSC 1130 and MUSC 250R</td>
<td>Provides group instruction for students with little or no piano and note-reading experience. Covers melodic and rhythmic notation, key recognition, and major and minor finger patterns. Teaches basic harmonization, transposition, and improvisation. Software fee of $12 applies. Course Lab fee of $23 for computers applies.</td>
</tr>
<tr>
<td>MUSC 1060</td>
<td>Beginning Piano II</td>
<td>2:2:0</td>
<td>On Sufficient Demand</td>
<td>Prerequisite(s): MUSC 1130 and MUSC 250R</td>
<td>Builds on the skills learned in Beginning Piano I. Studies notation, scales, chord progressions, sight-reading, basic harmonization, transposition, and improvisation.</td>
</tr>
<tr>
<td>MUSC 1100</td>
<td>Fundamentals of Music</td>
<td>3:3:0</td>
<td>Fall, Spring, Summer</td>
<td>Prerequisite(s): MUSC 1130 and MUSC 250R</td>
<td>Examines the fundamentals of music theory such as pitch notation, meter, rhythm, time signatures, intervals, major and minor scales, key signatures, and triads. Fulfills the Fine Arts general education distribution requirement and addresses essential learning outcomes of quantitative reasoning. May be delivered online.</td>
</tr>
<tr>
<td>MUSC 1110</td>
<td>Music Theory I</td>
<td>3:3:0</td>
<td>Fall, Spring</td>
<td>Prerequisite(s): MUSC 1130 and MUSC 250R</td>
<td>Studies the fundamentals of music theory including elementary harmony, primary and secondary triads with inversions, non-harmonic tones and modulation.</td>
</tr>
<tr>
<td>MUSC 1120</td>
<td>Music Theory II</td>
<td>3:3:0</td>
<td>Spring, Summer</td>
<td>Prerequisite(s): MUSC 1130 and MUSC 250R</td>
<td>Provides further study of the fundamentals of music theory. Covers the analysis and composition of music using leading tone triads, seventh chords, secondary dominants, sequences, voice leading and modulation.</td>
</tr>
</tbody>
</table>

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### Applied Business Research (MKTG 6860)**

- **3:3:0** Fall
- **Prerequisite(s): Acceptance into the Woodbury School of Business MBA program**

Provides students with the capability to design and conduct applied business research projects in the varied disciplines as well as integrative across disciplines. Examines the philosophy of science, research design, measurement and scaling, reliability and validity, communication of research results, and related issues.

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### Creativity and Innovative Problem Solving (MKTG 6920)**

- **1.5:1:5:0** Fall, Spring
- **Prerequisite(s): Acceptance into the Woodbury School of Business MBA program**

Applies an understanding of the nature of creativity and expansive problem solving within the business environment through projects, simulations and/or case study. Provides awareness about individual and organizational characteristics which impact creative thinking and limit imaginative solutions.
**Course Descriptions**

**MUSC 125R**  
**University Band**  
1:0:2  
On Sufficient Demand  
Provides group training in the various styles of band literature. Requires participation at scheduled performances. May be repeated as desired.

**MUSC 1400**  
**Music Technology I**  
2:2:0  
Fall  
Examines the fundamental concepts and usage of technologies in music. Studies the history of analog and digital recording and the emergence of synthesis. Details the historical and current uses of Musical Instrument Digital Interface (MIDI). Introduces the basics of a Digital Audio Workstation (DAW) and contemporary music notation. May be delivered online. Software fee of $8 applies. Course Lab fee of $32 for computers applies.

**MUSC 1402**  
**Music Technology II**  
2:2:0  
Spring  
* Prerequisite(s): MUSC 1400  
Builds on the concepts covered in Music Technology I. Examines the uses of Musical Instrument Digital Interface (MIDI) and virtual instruments in the modern Digital Audio Workstation (DAW). Studies in greater depth the processes of contemporary music notation. May be delivered online. Software fee of $8 applies. Course Lab fee of $32 for computers applies.

**MUSC 1410**  
**Introduction to Careers In Contemporary Music Media**  
1:1:0  
Fall  
Introduces the many applications and possibilities of producing and arranging in contemporary media. Covers scoring for various media (movies, games, television, internet applications), song recording and production, music production for special live and live-broadcast events, music theater, jingles, radio and television specialized applications, performance, etc. Includes presentations by professional guests, attendance at performances, lab work in a working recording studio and introductory assignments in music media labs. Covers copyright and contractual concerns. Emphasizes the value of networking with both student peers and professionals.

**MUSC 160R**  
**Private Lessons for Nonmusic Majors**  
1:1:0  
Fall, Spring, Summer  
* Prerequisite(s): Audition required.  
For nonmusic majors only. Private instruction for individual instruments or voice. Designed to meet the individual needs of the student in developing skills and techniques. Requires a minimum of five hours of practice each week. May be repeated as desired. Course fee of $270 for support applies.

**MUSC 1630**  
**Group Voice I**  
1:1:1  
Fall, Spring  
Provides group instruction in the development of vocal skills and techniques. Covers classical vocal production, breath management, diction, and performance skills. Provides student performance of vocal literature from several genres and style periods.

**MUSC 1640**  
**Group Voice II**  
1:1:1  
On Sufficient Demand  
* Prerequisite(s): MUSC 1630 or instructor permission  
Provides more advanced group instruction in the development of vocal skills and techniques. Covers classical vocal production, breath management, English and Italian diction, performance anxiety and performance skills. Provides student performance of vocal literature from several genres and style periods.

**MUSC 1800**  
**Introduction to Music Education**  
1:1:1  
Fall  
Introduces the Music education profession. Emphasizes personal, professional, and musical skills necessary for successful music teaching and learning. Requires observation of music teachers outside of scheduled class time.

**MUSC 2110**  
**Music Theory III**  
3:3:0  
Fall  
* Prerequisite(s): MUSC 1120  
Studies the diatonic and chromatic materials of common practice music theory. Covers the analysis and composition of music using chromatic chords such as secondary dominants, diminished seventh chords, Neapolitan chords, and Italian, French and German sixth chords. Practices multiple methods of modulation.

**MUSC 2130**  
**Aural Skills III**  
1:1:1  
Fall  
* Prerequisite(s): MUSC 1140  
* Corequisite(s): MUSC 2110  
Provides training in the aural identification of intervals, triad inversions and chord progressions. Practices rhythmic dictation of syncopated rhythms and asymmetric and mixed meters, and melodic dictation of disjunct melodies and two-part dictation. Studies the solfege movable “Do” system in major, minor keys and modes with coordinating Kodaly hand signs.

**MUSC 2140**  
**Aural Skills IV**  
1:1:1  
Spring  
* Prerequisite(s): MUSC 2130  

**MUSC 2350**  
**Fundamentals of Conducting**  
2:2:0  
Fall  
Provides an introduction to the basics of conducting. Focuses on baton technique, score reading, interpretation and rehearsal.

**MUSC 2400**  
**Music Recording Applications I**  
2:2:0  
Fall  
* Prerequisite(s): MUSC 1402  
Introduces the Digital Audio Workstation, including shortcuts and commands for maximizing effectiveness within the workstation. Covers in-depth editing using traditional methods, beat detective and elastic audio. Studies basic use of effects, mixing techniques and procedures. Software fee of $8 applies. Course Lab fee of $32 for computers applies.

**MUSC 2420**  
**Music Recording Applications II**  
2:2:0  
Spring  
* Prerequisite(s): MUSC 2400  
Continues the study and application of recording techniques begun in MUSC 2400. Includes a comprehensive examination of the various techniques within the Digital Audio Workstation. Requires creative projects demonstrating proficient use of studied applications. Software fee of $8 applies. Course Lab fee of $32 for computers applies.

**MUSC 250R**  
**Private Lessons for Music Majors**  
1:1:0  
Fall, Spring, Summer  
* Prerequisite(s): Departmental Approval.  
* Corequisite(s): MUSC 251R  
Offers private instruction for instrument or voice. Designed to meet the individual needs of the student in developing skills and techniques. For music majors only. May be repeated as desired. Course fee of $443 for support applies.

**MUSC 251R**  
**Performance Class**  
1:1:0  
Fall, Spring, Summer  
* Corequisite(s): MUSC 250R  
Provides additional performance experience for music majors. Develops an ability to offer and receive constructive criticism. Explores performance-related topics such as practice strategies, performance anxiety, interpretive phrasing, technical mastery, memorization and jury preparation. May be repeated for a maximum of 12 credits toward graduation.

**MUSC 281R**  
**Internship in Music I**  
1 to 8:0:5 to 40  
Fall, Spring, Summer  
* Prerequisite(s): Departmental Approval  
Provides an opportunity for students to receive college credit and explore career options in music by working in music-related fields. Applies academic concepts to actual work experiences. Requires approval of faculty sponsor and completion and acceptance of application. Requires completion of an orientation, completion of Master Agreement between UVU and employer, completion of goals and tasks as required by academic department, and completion of final evaluation. May be repeated for a total of 8 credits toward graduation. May be graded credit/no credit.
MUSC 290R
Independent Study
1 to 3:0:3 to 9  Fall, Spring, Summer
* Prerequisite(s): Instructor permission and advisor approval
Individual projects to be negotiated by student and instructor on a case-by-case basis to be approved by the departmental advisor. May be repeated for a maximum of 4 credits toward graduation.

MUSC 3001
Diction and Literature I
1:1:1  Fall
* Prerequisite(s): MUSC 1110, MUSC 1120, and University Advanced Standing
* Corequisite(s): MUSC 250R or MUSC 450R
Teaches proficiency in the International Phonetic Alphabet as it pertains to the English and Italian languages. Provides basic reading, comprehension, and grammar skills in Italian. Presents an overview of the English and Italian art song repertoire. Course Lab fee of $15 for support applies.

MUSC 3002
Diction and Literature II
1:1:1  Spring
* Prerequisite(s): MUSC 3001 and University Advanced Standing
* Corequisite(s): MUSC 250R or MUSC 450R
Teaches proficiency in the International Phonetic Alphabet as it pertains to the French and German languages. Provides basic reading, comprehension, and grammar skills in French and German. Presents an overview of the French and German art song repertoire. Course Lab fee of $15 for support applies.

MUSC 3015
Jazz and Rock Theory
3:3:0  Fall
* Prerequisite(s): MUSC 2110 and University Advanced Standing
Studies the theory of jazz, including the analysis of chord symbols related to blues, Latin jazz, funk, and bebop. Covers the composition of song forms in a variety of styles. Includes transcription and analysis of jazz solos. Discusses Broadway show tunes, rock and roll, folk songs of the '60s and '70s, and songs from the American song book.

MUSC 3025
Songwriting I
2:2:0  Fall
* Prerequisite(s): MUSC 1400 and University Advanced Standing
Studies the creative processes and techniques involved in commercial songwriting. Covers the essential elements of lyric writing, setting lyrics to melody, and utilizing functional harmony. Explores the process of developing a production plan for a song demo. Software fee of $8 applies. Course Lab fee of $32 for computers applies.

MUSC 3026
Songwriting II
2:2:0  Spring
* Prerequisite(s): MUSC 3025 and University Advanced Standing
Expands on the skills learned in Songwriting I. Focuses on the demands of commercial music projects, including the creation of lyrics and songs that have mass appeal. Discusses the professional expectations of writing on demand in a specific musical style for requisitioned purposes. Covers the business aspects of songwriting including demos, property rights, publishing, and marketing options. Software fee of $8 applies. Course Lab fee of $32 for computers applies.

MUSC 306R
Advanced Keyboard Skills
1:0:2  Fall, Spring
* Corequisite(s): MUSC 250R or MUSC 450R
Provides advanced study in piano technique, sight-reading, and ensemble skills. Develops pedagogical skills through master classes and teaching beginners. May be repeated for maximum of 12 credits toward graduation.

MUSC 3120
Form and Analysis
3:3:0  Spring
* Prerequisite(s): MUSC 2110 and University Advanced Standing
Explores the structure, meaning and organization of music. Concentrates on the standard practices of European-sphere music since 1600. Teaches techniques for understanding and classifying musical structure. Places techniques and knowledge from the first three semesters of music theory into a comprehensive whole.

MUSC 3150
Advanced Instrumental Conducting
2:2:0  Spring
* Prerequisite(s): MUSC 2350 and University Advanced Standing
Teaches advanced baton techniques, score preparation and basic rehearsal procedures for instrumental ensembles.

MUSC 320R
Masterworks Chorale
1:0:3  Not Offered
* Prerequisite(s): Audition
Provides group training in the various styles of choral literature. Requires attendance at scheduled performances. May be repeated as desired. Course fee of $20 for support applies.

MUSC 322R
Chamber Choir
1:0:4  Fall, Spring
* Prerequisite(s): Audition
For the advanced singer desiring experience in choral performance. Provides the opportunity of performing in a small group of select singers. Studies music of various styles and periods. Requires participation in concerts, programs, and tours. May be repeated as desired. Course fee of $20 for support applies.

MUSC 327R
Men's Chorus
1:0:3  Fall, Spring
* Prerequisite(s): Audition
Provides male vocalists with advanced individual and ensemble training. Includes emphasis on auditioning, rehearsal and performance etiquette, and ensemble skills and dynamics. Requires participation in concerts, programs and tours. May be repeated as desired. Course Lab fee of $15 for support applies.

MUSC 330R
Wind Symphony
1:0:4  Fall, Spring
* Prerequisite(s): Audition
Improves musical performance skills by participation in the band. Studies and performs serious concert literature. Requires attendance at all concerts, performances, tours and acquisition of performance attire. May be repeated as desired.

MUSC 331R
Percussion Ensemble
1:0:4  Fall, Spring
* Prerequisite(s): Audition
Provides percussion ensemble experience. Emphasis on sight reading and music performance skills. Attendance is expected at all concerts, rehearsals, and tours. May be repeated as desired. Course Lab fee of $10 for equipment applies.

MUSC 332R
Jazz Ensemble
1:0:3  Fall, Spring
* Prerequisite(s): Audition
Provides the advanced instrumentalist the opportunity to perform jazz music as a member of the jazz ensemble. Studies all styles of jazz, rock and popular music. Improvisational and sight-reading skills are emphasized. Requires attendance at all performances. May be repeated as desired.

MUSC 333R
Jazz Comos
1:0:2  On Sufficient Demand
* Prerequisite(s): Audition
Provides the advanced instrumentalist the opportunity to perform jazz music as a member of a jazz combo. Studies all styles of jazz, rock and popular music. Improvisational and sight-reading skills are emphasized. Requires attendance at all performances. May be repeated as desired.
**Course Descriptions**

**MUSC 334R**  
**Pep Band**  
1:0:2  
Fall, Spring  
* Prerequisite(s): Audition  
Provides opportunities to perform band literature for athletic events, including home games, playoffs and championships. Requires participation at all rehearsals and assigned games. May be repeated as desired.

**MUSC 3400**  
**Music in the Elementary School**  
2:2:0  
On Sufficient Demand  
* Prerequisite(s): University Advanced Standing  
For Elementary Education students and other interested students and community members. Introduces concepts and techniques of music education applicable to the elementary school classroom. Teaches concepts and skills through a combination of readings and lectures. Applies vocal and instrumental basics and class projects. Addresses the Utah State Core Curriculum for music for the elementary school. Completion of a second course is required to satisfy the fine arts requirement (see Graduation section of catalog).

**MUSC 3410**  
**Elementary Music Methods I**  
2:2:0  
On Sufficient Demand  
* Prerequisite(s): MUSC 2110 and University Advanced Standing  
Teaches the sequence, tools, materials, and philosophy of teaching musical concepts to children in grades K-3. Develops skill on classroom instruments.

**MUSC 3411**  
**Elementary Music Methods II**  
2:2:0  
On Sufficient Demand  
* Prerequisite(s): MUSC 2110, MUSC 3410, and University Advanced Standing  
Teaches the sequence, tools, materials, and philosophy of teaching musical concepts to children in grades 4-6. Develops skill on classroom instruments.

**MUSC 3412**  
**Music Career Development**  
3:3:0  
Spring  
* Prerequisite(s): MUSC 2110 and University Advanced Standing  
Examines various career options in the music industry. Covers the identification of audience and client and the process of supplying products appropriate to their needs. Includes advertising, client relations, social media, and creating an online presence. Explores the development of funding sources for music projects and basic music accounting practices. Covers sync fees, performance rights organizations (PRO), and multiple streams of income through royalties.

**MUSC 3415**  
**Instrumental Pedagogy and Literature I**  
2:2:0  
Fall  
* Prerequisite(s): University Advanced Standing  
* Prerequisite(s) or Corequisite(s): MUSC 2110  
Provides students the opportunity to study the pedagogy and literature of their major instrument. Examines various pedagogical approaches and incorporates in-class teaching demonstrations. Includes the selection of appropriate solo and chamber literature for beginning and intermediate levels.

**MUSC 3416**  
**Instrumental Pedagogy and Literature II**  
2:2:0  
Spring  
* Prerequisite(s): MUSC 3415 and University Advanced Standing  
Provides students the opportunity to study the pedagogy and literature of their major instrument. Examines various pedagogical approaches and incorporates in-class teaching demonstrations. Includes the selection of appropriate solo and chamber literature for advanced levels.

**MUSC 3450**  
**Music History and Literature I**  
3:3:0  
Fall  
* Prerequisite(s): MUSC 3120 and University Advanced Standing  
Covers the history of European music from ancient times to the Classic era. Surveys periods, genres, composers, works, performance practice, and sources. Emphasizes musical meaning, style, and interpretation.

**MUSC 3451**  
**Music History and Literature II**  
3:3:0  
Spring  
* Prerequisite(s): MUSC 3450 and University Advanced Standing  
Covers the history of European music from the Classic era to the present. Surveys periods, genres, composers, works, performance practice, and sources. Emphasizes musical meaning, style, and interpretation.

**MUSC 3620**  
**Percussion Practicum I**  
1:1:1  
Fall  
* Prerequisite(s) or Corequisite(s): MUSC 2110  
Prepares music education majors in the pedagogy and methods of percussion instruments for beginning players. Course Lab fee of $15 for equipment applies.

**MUSC 3621**  
**Percussion Practicum II**  
1:1:1  
Spring  
* Prerequisite(s): MUSC 3620 and University Advanced Standing  
Prepares music education majors in the pedagogy and methods of percussion instruments for intermediate players in secondary school programs.

**MUSC 3630**  
**Vocal Practicum**  
1:1:1  
Spring  
* Prerequisite(s): University Advanced Standing  
* Prerequisite(s) or Corequisite(s): MUSC 2110  
Provides an introduction to vocal pedagogy and basic choral concepts for music education majors. Focuses on principles of healthy vocal production. Covers vocal anatomy, breath energy, phonation, resonance, articulation, registration, warm-ups, basic diction, ensemble singing, and working with adolescent voices. Involves solo and ensemble singing, rehearsal conducting, and private teacher observations.

**MUSC 3649**  
**String Practicum I**  
1:1:1  
Fall  
* Prerequisite(s): University Advanced Standing  
* Prerequisite(s) or Corequisite(s): MUSC 2110  
Studies the pedagogical process of a beginning and intermediate string class. Covers strategies for the recruitment and organization of an orchestra program. Discusses the selection and maintenance of string instruments, accessories and supplies. Course Lab fee of $15 for equipment applies.

**MUSC 3650**  
**String Practicum II**  
1:1:1  
Spring  
* Prerequisite(s): MUSC 3649 and University Advanced Standing  
Provides additional instruction in string performance skills. Studies the pedagogical process of an advanced string class. Covers the planning and execution of effective rehearsals. Discusses choices for method books and orchestra literature. Course Lab fee of $15 for equipment applies.

**MUSC 3659**  
**Woodwind Practicum I**  
1:1:1  
Fall  
* Prerequisite(s): University Advanced Standing  
* Prerequisite(s) or Corequisite(s): MUSC 2110  
Teaches basic performing skills on the clarinet and saxophone including tone production, articulation, registers and fingerings. Studies pedagogical processes, methods and literature. Covers strategies for the recruitment and organization of a band program. Discusses instrument selection and maintenance, reeds and accessories. Course Lab fee of $15 for equipment applies.

**MUSC 3660**  
**Woodwind Practicum II**  
1:1:1  
Spring  
* Prerequisite(s): MUSC 3659 and University Advanced Standing  

**MUSC 3679**  
**Brass Practicum I**  
1:1:1  
Fall  
* Prerequisite(s): University Advanced Standing  
* Prerequisite(s) or Corequisite(s): MUSC 2110  
Teaches basic performing skills on the trumpet and French horn. Studies the assembly, mechanism, embouchure formation, tone, breath control, intonation and fingerings of each instrument. Discusses brand selection, accessories, equipment supplies and instrument care. Covers pedagogical processes, repertoire and method resources. Course Lab fee of $15 for equipment applies.
Course Descriptions

MUSC 3680
Brass Practicum II
1:1:1 Spring
* Prerequisite(s): MUSC 3679 and University Advanced Standing

Provides basic performance instruction on the trombone, euphonium and tuba. Studies the assembly, mechanism, embouchure formation, tone, breath control, intonation and fingerings of each instrument. Covers rehearsal strategies and literature selection. Discusses choices for instrument brands, accessories and supplies. Course Lab fee of $15 for equipment applies.

MUSC 3690
Jazz Practicum
1:1:1 On Sufficient Demand
* Prerequisite(s): (MUSC 3659 or MUSC 3679) and University Advanced Standing

Provides a practical study of basic jazz performance, improvisation, transcription, styles, history and rehearsal techniques. Prepares students to teach jazz.

MUSC 370R
Symphony Orchestra
1:0:4 Fall, Spring
* Prerequisite(s): Audition

Provides opportunity to improve musical performance skills by participating in orchestra. Studies and performs serious concert literature from all periods of music history. Requires attendance at all concerts, rehearsals, tours and acquisition of performance attire. May be repeated as desired.

MUSC 372R
Chamber Orchestra
1:0:2 Fall, Spring
* Prerequisite(s): Audition

Provides smaller orchestra experience. Improves individual and ensemble performance skills. Studies and performs serious concert literature from all periods of music history. Attendance is expected at all concerts, rehearsals, and tours. Audition is required. May be repeated as desired.

MUSC 373R
Small Ensembles
1:0:2 Fall, Spring
* Prerequisite(s): Instructor Approval

Provides opportunities for performing in small groups of select musicians. Studies music of various styles and periods. Some public performances will be required. May be repeated as desired.

MUSC 379R
Studio Recording Workshop
1:0:2 Spring
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): MUSC 1400

Provides performance opportunities in a contemporary recording studio environment. Examines the interrelating roles of performer, engineer, and producer. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of $32 for computers applies.

MUSC 3800
Junior Recital
1:0:3 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Corequisite(s): MUSC 450R

Provides a solo recital experience for students during their junior year.

MUSC 410R
Music Composition
2:2:0 Fall
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): MUSC 2110

Builds on compositional techniques for music majors. Explores historical and contemporary techniques, repertoire, and concepts with an emphasis on creating and performing an original piece. Provides opportunities for students to explore their own creative process and demonstrate their knowledge through composition projects. May be repeated for a maximum of 8 credits toward graduation. Software fee of $8 applies. Course Lab fee of $32 for computers applies.

MUSC 4120
Twentieth-Century Theory
3:3:0 Spring
* Prerequisite(s): MUSC 3450 and University Advanced Standing

Surveys compositional techniques used by post-tonal composers of the twentieth century. Builds on the knowledge and skills learned in the tonal music theory classes.

MUSC 4130
Scoring and Arranging
2:2:0 Fall
* Prerequisite(s): MUSC 3120 and University Advanced Standing

Studies techniques of scoring and arranging music for orchestra, band, choir, and small ensembles. Software fee of $8 applies. Course Lab fee of $32 for computers applies.

MUSC 4140
Counterpoint
3:3:0 On Sufficient Demand
* Prerequisite(s): MUSC 3120 and University Advanced Standing

Teaches the techniques of combining melodic voices in a historical context. Covers concepts from the entire span of music history since the emergence of polyphony around the twelfth century. Emphasizes the disciplines of sixteenth- and eighteenth-century counterpoint. Software fee of $8 applies. Course Lab fee of $32 for computers applies.

MUSC 4150
Advanced Choral Conducting
2:2:0 Spring
* Prerequisite(s): MUSC 2350 and University Advanced Standing

Develops advanced baton techniques, score preparation and basic rehearsal procedures for choral organizations. Explores advanced tools of coordination and musicianship, and covers communication and score analysis.

MUSC 420R
Film Scoring
2:2:0 Spring
* Prerequisite(s): MUSC 410R and University Advanced Standing

Covers theoretical concepts, creative and collaborative methods, and practical experiences in the process of creating music for film and video. Includes elements of film score history, dramatic structure, collaboration, spotting, musical structure and form (including leitmotif and variation), timing, temp tracks, digital mockups and production demos, recording and mixing film music, copyright and contractual concerns, developing a portfolio of musical scoring work. Activities include lecture/discussion of theoretical principles, analysis of masterworks in the film music genre, and production of a student-scored film/video clip. May be repeated as desired. Software fee of $8 applies. Course Lab fee of $32 for computers applies.

MUSC 4220
Choral Literature and Methods
2:2:0 Fall
* Prerequisite(s): MUSC 2350 and University Advanced Standing

Studies the process of developing a successful school choral program. Analyzes the quality of choral literature and its suitability for various skill levels. Studies effective rehearsal management strategies. Examines current resources and systems for choral program administration. Develops skills in singing, score analysis, conducting techniques, section leading, and microteaching.

MUSC 4221
Advanced Choral Literature and Methods
2:2:0 Spring
* Prerequisite(s): MUSC 4220 and University Advanced Standing

Provides further examination of the processes involved in developing a successful school choral program. Studies the history and performance practices of stylistic periods of choral literature. Provides opportunities to plan and lead choral ensemble rehearsals. Includes preparations of materials for professional portfolios. Covers strategies for long-term professional development.

MUSC 423R
Opera Workshop
1:0:4 Fall, Spring
* Corequisite(s): MUSC 250R or MUSC 450R

Provides experience performing scenes from opera. Explores the techniques of dramatic characterization and stage craft. Addresses the process of character analysis. Discusses the control of performance anxiety. Practices the basic techniques of stage makeup and costuming. Develops advanced-level singing proficiency. May be repeated for a maximum of 12 credits toward graduation. Course Lab fee of $60 for support applies.
Course Descriptions

MUSC 4240
Vocal Pedagogy
2:2:0  Fall
* Prerequisite(s): MUSC 3002 and University Advanced Standing

Provides instruction centered on the art and science of vocalization as it pertains to teaching in a studio scenario and in personal study. Presents varied teaching methods for vocal instruction in group and one-to-one situations. Provides students the opportunity to teach and receive immediate peer and instructor evaluations on the efficacy of their teaching style and lesson content.

MUSC 4340
Marching Band Techniques
1:1:1  Fall
* Prerequisite(s): University Advanced Standing


MUSC 4360
Wind Band Literature and Methods
2:2:0  Spring
* Prerequisite(s): MUSC 2350 and University Advanced Standing

Studies literature, methodology, and administration of school band program. Includes field work in the public schools.

MUSC 4370
Orchestra Literature and Methods
2:2:0  Spring
* Prerequisite(s): MUSC 2350 and University Advanced Standing

Studies literature, methodology, and administration of a school orchestra program. Includes field work in the public schools.

MUSC 450R
Private Lessons for Music Majors
1:1:0  Fall, Spring, Summer
* Prerequisite(s): Audition required and University Advanced Standing
* Corequisite(s): MUSC 451R

Offers private instruction for instrument or voice. Designed to meet the individual needs of the student in developing skills and techniques. Requires a minimum of twelve hours of practice each week. For music majors only. May be repeated as desired. Course fee of $443 for recital preparation applies.

MUSC 455R
Private Lessons for Music Performance Majors
2:2:0  Fall, Spring, Summer
* Prerequisite(s): MUSC 1120 and University Advanced Standing
* Corequisite(s): MUSC 451R

Provides upper-division private instruction for music performance majors. Promotes the development of technical, stylistic, and interpretive skills at a professional level. Includes preparations for Junior and Senior recitals. May be repeated as desired. Course fee of $443 for recital preparation applies.

MUSC 4600
Jazz Improvisation
2:2:0  Spring
* Prerequisite(s): MUSC 1120 and University Advanced Standing

Develops jazz improvisational skills for instrumental and vocal jazz performance. Emphasizes chords related to blues, Latin jazz, funk, and bebop. Develops skills through a program of systematic exposition and utilization of fundamental musical structures.

MUSC 470R
Studio Arranging and Producing
3:3:0  Fall, Spring
* Prerequisite(s): MUSC 2400, MUSC 3120, and University Advanced Standing

Covers theoretical concepts of arranging and production in the recording studio in various styles and applications. Incorporates practical experience in a working professional studio. Applies principles of orchestration, both traditional and contemporary, in the classroom and studio environment. Emphasizes communication skills with recording artists, musicians and engineers. Covers logistical protocols for scheduling, booking of studios and musicians, studio demeanor and ethics, and working with clients. May be repeated for a maximum of 12 credits towards graduation. Software fee of $8 applies. Course Lab fee of $32 for computers applies.

MUSC 4800
Senior Recital
1:0:3  Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Corequisite(s): MUSC 455R

Provides a solo recital experience for students during their senior year.

MUSC 481R
Internship in Music II
1 to 8:0:5 to 40  Fall, Spring, Summer
* Prerequisite(s): Departmental Approval and University Advanced Standing

Provides an opportunity for upper-division students to receive college credit and work in a music-related field. Offers students the opportunity to focus on a specific career path and prepare themselves to enter the profession. Applies academic concepts to actual work experiences. Requires approval of faculty sponsor and completion and acceptance of application. Also requires completion of an orientation, completion of Master Agreement between UVU and employer, completion of goals and tasks as required by academic department, and completion of final evaluation. May be repeated for a total of 8 credits towards graduation. May be graded credit/no credit.

MUSC 490R
Advanced Independent Study
1 to 3:0 to 9  Fall, Spring, Summer
* Prerequisite(s): MUSC 3120 and University Advanced Standing

Individual projects to be negotiated by student and instructor on a case-by-case basis. May be repeated for a maximum of 12 credits toward graduation.

MUSC 492R
Advanced Topics in Music
1 to 3:1 to 3:0  Spring
* Prerequisite(s): MUSC 3120, departmental approval, and University Advanced Standing; Certain topics may require other prerequisites

Examines advanced topics in music. Examples could include historical, theoretical, or pedagogical topics such as Schenkerian analysis or 16th century counterpoint. May be repeated for a maximum of 9 credits toward graduation.

Nursing (NURS)

NURS 1400
Introduction to Nursing
2:2:0  Explores careers in nursing, introducing nursing roles in promoting, maintaining and restoring health. Identifies key aspects of nursing practice in context of health care trends, including clinical judgment, relationship skills, and ability to access and evaluate health care literature.

NURS 2300
Nursing Health Assessment
1:0:3  Fall, Spring
* Prerequisite(s): Acceptance into ASN/BS Nursing program

Provides laboratory and clinical opportunities to perform health assessment skills and techniques for patients across the lifespan. Uses a holistic approach in identifying health care needs of the patient within the context of the nursing process.

NURS 2305
Nursing Health Assessment Laboratory
1:0:3  Fall, Spring
* Prerequisite(s): Acceptance into ASN/BS Nursing program

Provides laboratory and clinical opportunities to perform health assessment skills and techniques for individuals across the lifespan. Applies theoretical principles gained from concurrent courses. Course Lab fee of $35 applies.

NURS 2310
Nursing Pharmacology
3:3:0  Fall, Spring
* Prerequisite(s): CHEM 1110 and ZOOL 2320

Examines general principles of drug therapy, including medication administration, drug action in the body, and dosage calculations. Focuses on major drug categories and prototypes in each category. Serves as a basis for understanding drug therapy as an integral part of health care.
NURS 2320 Nursing Interventions Laboratory 2:2:0 Fall, Spring
* Prerequisite(s): Acceptance into ASN/BS Nursing program
* Corequisite(s): NURS 2325
* Prerequisite(s) or Corequisite(s): NURS 2300
Introduces nursing interventions to promote and enhance comfort, hygiene, nutrition, elimination, sleep and rest, activity and mobility for persons with self-care deficits, or facilitating self-care. Provides laboratory and clinical opportunities to apply nursing interventions. Emphasizes nursing interventions based on patient assessment as well as safety risk reduction. Course fee of $155 for state services testing applies.

NURS 2400 Clinical Reasoning in Nursing 2:2:0
* Prerequisite(s): NURS 2320
Examines elements, traits, standards and modes of critical thinking used in nursing practice and applies them in use of the nursing process. Focuses on development of skills required to plan nursing care for individuals, families, groups and communities. Course fee of $142 for state services testing applies.

NURS 2405 Clinical Reasoning Practicum 1:0:3
* Prerequisite(s): Department approval
* Corequisite(s): NURS 2400
Application of nursing clinical reasoning and intervention skills in laboratory and clinical settings. Focuses on nursing process, communication, and collaboration.

NURS 2410 Nursing Care of Adults with Common Disorders 2:2:0 Fall, Spring
* Prerequisite(s): NURS 2320
* Corequisite(s): NURS 2415
* Prerequisite(s) or Corequisite(s): NURS 2420
Explores application of the nursing process with adults experiencing common physiological problems. Integrates concepts of health assessment, health promotion, pharmacology, and clinical reasoning in planning and providing a holistic, collaborative approach to client care across the lifespan. Course fee of $125 for state services & testing applies.

NURS 2415 Nursing Care of Adults with Common Disorders Clinical 2:0:6 Fall, Spring
* Prerequisite(s): NURS 2320
* Corequisite(s): NURS 2410
* Prerequisite(s) or Corequisite(s): NURS 2420
Applies the nursing process with adults experiencing common physiological problems in a variety of clinical settings, including laboratory simulation, inpatient medical-surgical and peri-operative units. Integrates concepts of health assessment, health promotion, pharmacology, and clinical reasoning in planning and providing a holistic, collaborative approach to client care across the lifespan. Course Lab fee of $96 applies.

NURS 2420 Nursing Care of the Aging Population 2:2:0 Fall, Spring
* Prerequisite(s): NURS 2300, NURS 2310
* Corequisite(s): NURS 2410
Introduces the aging process and normal changes with aging. Identifies special needs of older adults and nursing interventions to meet those needs. Includes care of older adults with chronic illnesses and end-of-life care. Prepares nurses who meet the needs of the growing elderly population, using concepts and nursing roles established in the American Nurses Association's (ANAs) Scope and Standards of Gerontological Nursing Practice.

NURS 2425 Mental Health Nursing Clinical 1:0:3 Fall, Spring
* Prerequisite(s): NURS 2300, NURS 2310, NURS 2320
* Corequisite(s): NURS 2435
Examines neurobiological and psychosocial aspects of disorders of cognition, mood and behavior. Explores trends in nursing and multidisciplinary care of persons with psychiatric disorders. Focuses on nursing assessment, diagnosis and intervention for individuals with mental health needs.

NURS 2430 Mental Health Nursing 2:2:0 Fall, Spring
* Prerequisite(s): NURS 2300, NURS 2310
* Corequisite(s): NURS 2435
Examines neurobiological and psychosocial aspects of disorders of cognition, mood and behavior. Explores trends in nursing and multidisciplinary care of persons with psychiatric disorders. Focuses on nursing assessment, diagnosis and intervention for individuals with mental health needs.

NURS 2435 Mental Health Nursing Clinical 1:0:3 Fall, Spring
* Prerequisite(s): NURS 2300, NURS 2310, NURS 2320
* Corequisite(s): NURS 2430
Application of nursing assessment, diagnosis and intervention for individuals with psychiatric disorders, through laboratory and clinical practicum in mental health settings.

NURS 281R Nursing Internship 1 to 6:0:5 to 30
* Prerequisite(s): Department Chair approval
Provides supervised, practical experience for students preparing for careers in Nursing. May be repeated for a total of 6 credits toward graduation. May be graded credit/no credit.

NURS 295R Independent Study in Nursing 1 to 4:1 to 4:0
* Prerequisite(s): Department approval
Provides individualized, independent study in nursing under the direction of a faculty mentor. May include literature reviews, participation in ongoing nursing projects, or other student identified projects/activities. Projects and/or learning activities are limited to work beyond that which is available in existing nursing courses. Proposals for independent study in nursing must be submitted for approval by the department. May be repeated for up to six credits toward graduation.

NURS 3300 Health Promotion and Health Teaching in Nursing 2:2:0 Fall, Spring
* Prerequisite(s): NURS 2320 and University Advanced Standing
Introduces health and wellness, and incorporates aspects of healthy living. Creates a foundation on which students can promote healthy lifestyles in clients of all ages. Introduces the Healthy People initiative. Considers application of primary, secondary, and tertiary prevention levels, effective learning/teaching, change theory, and therapeutic communication. Examines use of complementary and alternative therapies. Analyzes service learning and its potential impact related to health promotion in various settings.

NURS 3310 Nursing Care of Child Bearing Families 2:2:0 Fall, Spring
* Prerequisite(s): NURS 2410 and University Advanced Standing
* Corequisite(s): NURS 3315
Builds on concepts learned in previous and concurrent courses to provide nursing care to families in the reproductive years. Emphasizes the child-bearing family, including physiological and psychosocial adaptation to pregnancy, birth, and the immediate newborn period, and disorders of the reproductive patient. Integrates nursing process in providing a holistic, collaborative approach to clients and families in secondary and tertiary settings such as physician offices, labor and delivery, mother/baby, clinical simulation, and others.

NURS 3315 Nursing Care of Child Bearing Families Clinical 1:0:3 Fall, Spring
* Prerequisite(s): NURS 2410 and University Advanced Standing
* Corequisite(s): NURS 3310
Provides clinical opportunities to provide nursing care to families in the reproductive years. Emphasizes the child-bearing family, including physiological and psychosocial adaptation to pregnancy, birth, and the immediate newborn period, and disorders of the reproductive patient. Integrates nursing process in providing a holistic, collaborative approach to clients and families in secondary and tertiary settings such as physician offices, labor and delivery, mother/baby, clinical simulation, and others. Course Lab fee of $48 applies.
Course Descriptions

NURS 3320  
Nursing Care of Child Rearing Families  
2:2:0  
Fall, Spring  
* Prerequisite(s): NURS 3310, NURS 3315, and University Advanced Standing  
* Corequisite(s): NURS 3320  
Integrates previously mastered principles of medical surgical nursing and normal child growth and development with the knowledge and skill to promote, maintain, and restore child health within the sociocultural context of the family. Explores application of the nursing process to safely meet common health problems of children from infancy through adolescence in clinical settings ranging from the laboratory to intensive care.

NURS 3325  
Nursing Care of Child Rearing Families Clinical  
1:0:3  
Fall, Spring  
* Prerequisite(s): NURS 3310, NURS 3315, and University Advanced Standing  
* Corequisite(s): NURS 3320  
Safely applies the nursing process to meet health problems of children from infancy through adolescence in clinical settings ranging from the laboratory to intensive care. Integrates previously mastered principles of medical surgical nursing and normal child growth and development with the knowledge and skill to promote, maintain, and restore child health within the sociocultural context of the family. Course Lab fee of $39 applies.

NURS 3330  
Nursing Care of Persons with Complex Disorders  
2:2:0  
Fall, Spring  
* Prerequisite(s): NURS 2410 and University Advanced Standing  
* Corequisite(s): NURS 3330  
* Prerequisite(s) or Corequisite(s): ZOOL 4400 highly recommended  
Builds on concepts learned in previous nursing courses to provide care for clients with complex health disorders. Emphasizes pathophysiological mechanisms of disease, pharmacodynamics and monitoring and interventions required in the management of clients in acute and unstable conditions. Integrates the nursing process in a collaborative approach to clients and their families in secondary and tertiary settings such as emergency centers, telemetry, intermediate and intensive care units as well as clinical simulations. Course fee of $125 for state services & testing applies.

NURS 3335  
Nursing Care of Persons with Complex Disorders Clinical  
2:0:6  
Fall, Spring  
* Prerequisite(s): NURS 2410 and University Advanced Standing  
* Corequisite(s): NURS 3330  
* Prerequisite(s) or Corequisite(s): ZOOL 4400 highly recommended  
Provides clinical opportunities to provide care for clients with complex health disorders. Emphasizes pathophysiological mechanisms of disease, pharmacodynamics and monitoring and interventions required in the management of clients in acute and unstable conditions. Integrates the nursing process in a collaborative approach to clients and their families in secondary and tertiary settings such as emergency centers, telemetry, intermediate and intensive care units as well as clinical simulations. Course Lab fee of $44 applies.

NURS 3400  
Patient Care Coordination and Management  
2:2:0  
Fall, Spring  
* Prerequisite(s): NURS 3330, NURS 3335, and University Advanced Standing  
* Corequisite(s): NURS 3405  
Focuses on the core roles of the nurse as a provider of care, manager of care and member of the profession. Incorporates aspects of delegation, prioritization, time management in the workplace, communication, and group dynamics. Encompasses working in a clinical site with a preceptor. Presents activities needed for professional licensing and employment. Course fee of $125 for state services & testing applies.

NURS 3405  
Patient Care Coordination and Management Preceptorship  
2:0:6  
Fall, Spring  
* Prerequisite(s): NURS 3330, NURS 3335, and University Advanced Standing  
* Corequisite(s): NURS 3400  
Encompasses working in a clinical site with a preceptor and clinical nursing participation in coordinating and managing the care of a small group of patients. Focuses on the core roles of the nurse as a provider of care, manager of care and member of the profession. Incorporates aspects of delegation, prioritization, time management in the workplace, communication, and group dynamics. Course Lab fee of $30 applies.

NURS 3410  
Professional Standards of Nursing  
1:1:0  
* Prerequisite(s): NURS 2300 and University Advanced Standing  
Explores ethical, legal and professional guidelines for practice as a registered nurse. Examines professional responsibilities and accountabilities as identified in the Utah Nurse Practice Act, American Nurses Association.

NURS 4110  
Advanced Pharmacology  
2:2:0  
Spring  
* Prerequisite(s): NURS 2310 and University Advanced Standing  
Explores and examines the pharmacodynamics and pharmacokinetics of common medications. Gives students the opportunity to investigate in more depth the pharmacology of common medications and herbs. Emphasizes teaching patients about medications and herbs.

NURS 4130  
Critical Care in Nursing  
2:2:0  
Spring  
* Prerequisite(s): NURS 3330 and University Advanced Standing  
Expands upon nursing care of individuals with complex disorders. Focuses on nursing in the critical care setting and includes specialized topics such as: nursing assessment, equipment, diagnostic tests, medication administration, ECG monitoring and standard nursing care of the client with an acute illness.

NURS 4210  
Concepts in Child Bearing  
2:2:0  
Fall  
* Prerequisite(s): NURS 3310 and University Advanced Standing  
Introduces the student to special concepts related to the child bearing family, including legal and ethical questions that relate to childbearing. Discusses local and global issues in childbearing.

NURS 4220  
Advanced Pediatrics  
3:2:3  
Spring  
* Prerequisite(s): NURS 3320 and University Advanced Standing  
Applies the nursing process to provide family centered nursing care to hospitalized children from birth through adolescence. Explores and examines sociocultural, economic, developmental, emotional and physiologic factors which influence ill newborns or children and their families.

NURS 4230  
Palliative Care in Nursing  
3:3:0  
Spring  
* Prerequisite(s): NURS 2410 and University Advanced Standing  
Addresses nine critical aspects of palliative care. Designed to help the student understand his/her role as a member of the interdisciplinary team in providing quality care. Presents basic principles of palliative care within a quality of life framework: physical, psychological, social, and spiritual well-being.
NURS 4300  Nursing Theory  2:2:0  Spring
* Prerequisite(s): NURS 3300 and University Advanced Standing
Examines various nursing models and theories which influence current nursing practice. Explores essential and interdependent relationships among knowledge, theory, research, and nursing practice. Assists students to conduct a basic assessment of a theory and gain insight into the development of their individual philosophies of nursing practice. May be delivered hybrid and/or online.

NURS 4310  Nursing Research  3:3:0  Not Offered
* Prerequisite(s): NURS 3400 and University Advanced Standing
* Prerequisite(s) or Corequisite(s): MATH 2040
Introduces fundamental research concepts, designs, methodology and techniques. Examines the scientific approach, preliminary steps in research, designs for nursing research, measurement and data collection, and analysis of research data, critiquing process, and application of nursing research in practice. May be delivered hybrid.

NURS 4320  Nursing in the Community  2:2:0  Fall, Spring
* Prerequisite(s): Acceptance to BSN-completion program and University Advanced Standing
* Corequisite(s): NURS 4325
Explores professional nursing practice in community-based and community-focused settings to promote and preserve the health of populations. Emphasizes nursing's impact on behaviors that promote health and reduce risk. Includes principles of family and community assessments, epidemiology, and environmental health. May be delivered online.

NURS 4325  Nursing in the Community Clinical  2:0:6  Fall, Spring
* Prerequisite(s): Acceptance to BSN-completion program and University Advanced Standing
* Corequisite(s): NURS 4320
Applies professional nursing practice in community-based and community-focused settings to promote and preserve the health of populations. Utilizes family and community assessments, epidemiological and environmental health principles to plan and implement health promotion and risk reduction programs within the community.

NURS 4330  Nursing in Health Systems and Policy  3:3:0
* Prerequisite(s): Acceptance into ASNBS Nursing Program and University Advanced Standing
Explores the nursing profession's historical and current roles in health care delivery systems and in shaping health policy. Examines health policy issues from social, economic, political, historic as well as nursing perspectives. May be delivered hybrid and/or online.

NURS 4340  Nursing Leadership  2:2:0
* Prerequisite(s): NURS 3330, NURS 4320, and University Advanced Standing
* Corequisite(s): NURS 4405
* Prerequisite(s) or Corequisite(s): NURS 4330
Explores various management and leadership concepts. Assists students to develop knowledge and skills necessary for leadership in nursing care delivery. Discusses nursing roles of provider of care, manager of care and member of the profession as they relate to leadership and management concepts. Discusses additional roles such as case manager, educator, manager of fiscal resources, and facilitator of quality improvement.

NURS 4345  Nursing Leadership Clinical  2:0:6
* Prerequisite(s): NURS 3330, NURS 4320, and University Advanced Standing
* Corequisite(s): NURS 4400
Focuses on application of management and leadership concepts. Assists students to develop knowledge and skills necessary for leadership in nursing care delivery. Explores nursing roles of provider of care, manager of care and member of the profession as they relate to leadership and management concepts. Explores additional roles such as case manager, educator, manager of fiscal resources, and facilitator of quality improvement.

NURS 4400  Nursing Research  3:3:0
* Prerequisite(s): NURS 3400 or Departmental approval
and University Advanced Standing
Explores nursing and health care issues in a global perspective to promote culturally competent health care in a diversifying population. May be delivered hybrid and/or online.

NURS 4410  Nursing in Global Perspective  3:3:0  Fall, Spring
* Prerequisite(s): NURS 3400 or Departmental approval and University Advanced Standing
Examines health systems, including the relationships between delivery, access, utilization and patient outcomes. Explores how organizational and economic structures, political, sociocultural, and legal factors influence the design and functions of health services. May be delivered online.

NURS 4415  Nursing in Global Perspective  3:3:0
* Prerequisite(s): Acceptance to BSN-completion program and University Advanced Standing
Explores leadership concepts and assists students to develop knowledge and skills necessary for leadership in nursing care delivery. Discusses leadership concepts related to nursing roles of provider of care, manager of care and member of the profession. May be delivered online.

NURS 4420  Senior Seminar in Nursing  3:3:0
* Prerequisite(s): NURS 4300, NURS 4310, NURS 4320, and University Advanced Standing
* Corequisite(s): NURS 4430
* Prerequisite(s) or Corequisite(s): NURS 4330, NURS 4400
Builds upon a general knowledge of current issues and trends in nursing and health care. Examines current nursing issues and trends and their impact on professional practice and the health care system. Provides opportunities for enhancement of research, writing, and evaluation of current nursing practice. May be delivered hybrid.

NURS 4430  Senior Project in Nursing  1:1:0
* Prerequisite(s): NURS 4300, NURS 4310, NURS 4320, and University Advanced Standing
* Corequisite(s): NURS 4435
* Prerequisite(s) or Corequisite(s): NURS 4330, NURS 4400, NURS 4420
Provides opportunity for student to complete a well-defined clinical project in an area of special interest, to demonstrate culmination of learning achieved through all previous nursing education. Includes faculty supervision and focused formal instruction.

NURS 4435  Senior Project in Nursing Clinical  2:0:6
* Prerequisite(s): NURS 4300, NURS 4310, NURS 4320, and University Advanced Standing
* Corequisite(s): NURS 4430
Provides opportunity for student to implement a well-defined clinical project in an area of special interest to demonstrate culmination of learning achieved through all previous nursing education.

NURS 4500  Nursing Leadership  3:3:0  Fall, Spring
* Prerequisite(s): Acceptance to BSN-completion program and University Advanced Standing
Explores leadership concepts and assists students to develop knowledge and skills necessary for leadership in nursing care delivery. Discusses leadership concepts related to nursing roles of provider of care, manager of care and member of the profession. May be delivered online.

NURS 4510  Clinical Assessment and Reasoning  3:3:0  Fall, Spring
* Prerequisite(s): Acceptance to BSN-completion program and University Advanced Standing
Develops skills of systematic history taking, clinical examination and clinical reasoning with a focus on people with complex health problems. Incorporates the clinically significant genetic and genomic technologies and information.

NURS 4520  Navigating Health Systems  3:3:0  Fall, Spring
* Prerequisite(s): Acceptance to BSN-completion program and University Advanced Standing
Examines health systems, including the relationships between delivery, access, utilization and patient outcomes. Explores how organizational and economic structures, political, sociocultural, and legal factors influence the design and functions of health services. May be delivered online.

NURS 4540  Research and Theory in Nursing Practice  4:4:0  Fall, Spring
* Prerequisite(s): Acceptance to BSN-completion program, completion of a university-level statistics course with a minimum B- or higher and University Advanced Standing
Prepares nurses to find, evaluate and apply evidence as a foundation to propose creative, innovative, or evidence-based solutions to clinical practice problems. Explores selected nursing theories and conceptual models, fundamentals of the research process, and relationships between theory, practice and research. May be delivered online.
Course Descriptions

NURS 4550  
Quality and Safety in Nursing  
3:3:0  
Fall, Spring  
* Prerequisite(s): Admission to BSN completion program and University Advanced Standing  
Explores quality and safety initiatives in healthcare. Develops knowledge and skills to create and maintain a culture of quality and safety through monitoring and improving outcomes of care processes. May be delivered online.

NURS 481R  
Internship in Nursing  
1 to 6:0:5 to 30  
Summer  
* Prerequisite(s): Department Chair approval and University Advanced Standing  
Provides supervised, practical, clinical experience for students preparing for careers in nursing. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

NURS 489R  
Undergraduate Research in Nursing  
1 to 4:0:5 to 20  
On Sufficient Demand  
* Prerequisite(s): NURS 2410, Department approval, and University Advanced Standing  
Provides nursing students the opportunity to conduct research mentored by a faculty member. Students will create a significant intellectual or creative product worthy of publication or presentation. May be repeated for a maximum of 4 credits toward graduation.

NURS 490R  
Special Topics in Nursing  
1 to 4:1 to 4:0  
Fall, Spring, Summer  
* Prerequisite(s): NURS 2410 and University Advanced Standing  
Explores and examines special topics in nursing. Focuses on special topics of current relevance to the profession of nursing, including societal impacts of topics. Allows nursing students an opportunity to investigate special nursing topics in an in-depth manner. May be repeated for a maximum of 10 credits toward graduation. May be delivered online.

NURS 495R  
Independent Study in Nursing  
1 to 3:0:3 to 9  
Fall, Spring  
* Prerequisite(s): NURS 2410, Departmental approval, and University Advanced Standing  
Provides students an opportunity to pursue independent study in nursing with a faculty mentor. Includes any combination of literature reviews, original research, participation in departmental and independent projects. Requires preparation and presentation of oral and/or written reports. May be repeated for up to 3 credits toward graduation.

NURS 6000  
Leadership Development  
2:2:0  
Fall  
* Prerequisite(s): Admission to the Master of Science in Nursing (MSN) program or Department approval  
Provides opportunities for students to examine the role of the graduate nurse leader of the 21st century. Explores requisite skills necessary to lead in complex environments, facilitate improved patient outcomes, and institute quality improvement strategies as they gain an understanding of the interconnectedness of academia and service and apply professional leadership concepts in an interdisciplinary context. May be delivered online.

NURS 6050  
Nursing Informatics  
2:2:0  
Fall  
* Prerequisite(s): Admission into the MSN program or Department approval  
Introduces nursing informatics theory, evolving practice applications, and skill development. Discusses human factors essential to effective application of nursing informatics in practice. Applies technical skills and processes for the integration of nursing informatics into nursing education and clinical practice settings. May be delivered online.

NURS 6200  
Advanced Nursing Theory  
2:2:0  
Fall  
* Prerequisite(s): Admission into the MSN program or Department approval  
Provides students opportunities to critique and deconstruct extant and emerging theories as they relate to nursing. Explores the relationships among theory, knowledge, science, and evidence-based nursing practice. Facilitates the advancement of nursing practice based on theoretical principles. May be delivered online.

NURS 6250  
Advanced Nursing Research  
3:3:0  
Fall  
* Prerequisite(s): Admission into the MSN program or Department approval  
* Prerequisite(s) or Corequisite(s): NURS 6050; NURS 6200  
Prepares students to explore, critique, synthesize, and utilize appropriate research findings to resolve nursing problems and improve outcomes. Incorporates various research designs in the development of nursing practice. Applies research methodology and ethical considerations in development of a research proposal for evidence-based practice. May be delivered online.

NURS 6300  
Advanced Nursing in Health Systems and Policy  
2:2:0  
Spring  
* Prerequisite(s): Admission into the MSN program or Department approval  
Prepares students for their role in becoming change agents within the workforce. Provides students opportunity to critique current healthcare policies, including the effects policies have on current nursing practice, and current health care systems. Identifies changes that need to occur in order to advance nursing and health care in the future.

NURS 6400  
Roles and Collaboration in Nursing Education  
3:3:0  
Spring  
* Prerequisite(s): NURS 6000  
Prepares students to transition from the primary caregiver role to one of a knowledge worker in multiple settings. Prepares students to actualize the roles of the nurse educator as facilitators, motivators, mentors, consultants, colleagues, collaborators, scholars, members of the academy, and advocates in academic and clinical settings. May be delivered hybrid.

NURS 6500  
Curriculum Design and Development  
3:3:0  
Spring  
* Prerequisite(s): Admission to the MSN Program or Department approval  
Explores curriculum design and development in nursing and incorporates reviewing, restructuring, and developing curricula to meet identified learning needs. Enhances student skill and understanding of curricular processes designed to foster and advance nursing education. May be delivered hybrid.

NURS 6600  
Teaching Nursing in the Classroom Setting  
2:2:0  
Spring  
* Corequisite(s): NURS 6605  
* Prerequisite(s) or Corequisite(s): NURS 6400  
Focuses on facilitating learning in classroom settings. Incorporates aspects of the philosophy of adult education and adult learning theory, the teaching process and self-evaluation through reflective thinking/processing.

NURS 6605  
Teaching Nursing in the Classroom Setting Practicum  
2:0:6  
Spring  
* Corequisite(s): NURS 6600  
* Prerequisite(s) or Corequisite(s): NURS 6400 or department approval  
Focuses on application of teaching/learning skills in the nursing classroom setting. Incorporates aspects of the philosophy of adult education and adult learning theory, the teaching process and self-evaluation through reflective thinking/processing. Provides practicum experience in the teaching/learning environment.

NURS 6700  
Evaluation of Learning Outcomes  
3:3:0  
Fall  
* Prerequisite(s) or Corequisite(s): NURS 6250; NURS 6500  
Explores the application of various methods of evaluation, measurement and grading of learning outcomes. Applies assessment techniques to various aspects of nurse education.

NURS 6800  
Teaching Nursing in the Clinical Setting  
2:2:0  
Spring  
* Corequisite(s): NURS 6805  
* Prerequisite(s) or Corequisite(s): NURS 6500  
Focuses on effective teaching skills for clinical settings. Establishes teacher-learner relationships as being different than in the didactic setting.
Physical Education

Nutrition (NUTR)

NUTR 1020 Foundations of Human Nutrition
3:3:0 Fall, Spring, Summer
For students interested in various health care professions. Considers basic principles of human nutrition. Studies factors that influence nutritive requirements and maintenance of nutritional balance. Examines relationships between proper nutrition and social, mental, and physical well-being. May be delivered online.

NUTR 2020 Nutrition Through the Life Cycle
3:3:0 Fall, Spring
* Prerequisite(s): NUTR 1020
For students interested in various health care professions, particularly professions in nutrition, dietetics, and food sciences. Studies application of nutrition principles to the human life cycle. Includes nutrient functions, needs, sources, and alterations during pregnancy, lactation, growth, development, maturation, and aging.

NURS 6805 Teaching Nursing in the Clinical Setting Practicum
2:0:6 Spring
* Corequisite(s): NURS 6800
* Prerequisite(s) or Corequisite(s): NURS 6500
Focuses on applying effective teaching skills for clinical settings. Establishes teacher-learner relationships as being different than in the didactic setting.

NURS 6900 Synthesis of Teaching Practice
1:1:0 Fall
* Prerequisite(s): NURS 6700
* Corequisite(s): NURS 6905
Explores transition to the nurse educator role in academic and/or clinical settings.

NURS 6905 Synthesis of Teaching Practice Practicum
2:0:6 Fall
* Prerequisite(s): NURS 6700
* Corequisite(s): NURS 6900
Provides opportunities for students to enact the nurse educator role in academic and/or clinical settings. Applies knowledge under the direct mentorship of academic or clinical nurse educators.

NURS 699R MSN Project or Thesis
1 to 6:0:3 to 18 Fall, Spring
* Prerequisite(s): NURS 6250
Individualized faculty supervision of MSN thesis or project research and/or planning and implementation. May be repeated with department approval.

NURS 699R MSN Project or Thesis
1 to 6:0:3 to 18 Fall, Spring
* Prerequisite(s): NURS 6250
Individualized faculty supervision of MSN thesis or project research and/or planning and implementation. May be repeated with department approval.

NURS 699R MSN Project or Thesis
1 to 6:0:3 to 18 Fall, Spring
* Prerequisite(s): NURS 6250
Individualized faculty supervision of MSN thesis or project research and/or planning and implementation. May be repeated with department approval.

PES 1010 Aerobics I
1:0.5:1.5 Fall, Spring, Summer
A co-ed aerobic dance-exercise class that introduces aerobic conditioning principles designed to develop cardiovascular/respiratory systems, strength, coordination, and flexibility. Teaches choreographed routines involving jogging, dancing, and vigorous exercise set to music.

PES 1010 Aerobics II
1:0.5:1.5 Not Offered
A co-ed aerobic dance-exercise class that emphasizes increased knowledge in cardiovascular training, flexibility, and exercise injuries. Students acquire a more strenuous and advanced level of aerobic proficiency through high impact routines set to music.

PES 1050 Powertone
1:0.5:1.5 Fall, Spring, Summer
For students interested in strength and weight training in a group exercise setting. Utilizes barbarrings, weights, bands, med-balls, stability balls, and ropes set to music to present a total muscle conditioning class that is target-specific.

PES 1055 Pilates I–CoreMax Training
1:0.5:1.5 Fall, Spring, Summer
Introduces a contemporary approach to Pilates exercise. Provides a total body workout that challenges and optimizes strength, flexibility and endurance. Incorporates FlexBands, BOSU, stability balls, weighted balls, fitness circle and matwork to assist individuals in achieving optimal health and well-being. Designed to lengthen the body, strengthen the mid-section (core & spine), and improve posture and flexibility.

PES 1057 Power Yoga
1:0.5:1.5 Fall, Spring, Summer
For students interested in bringing balance to both body and mind. Presents a vigorous and powerful approach using Ashtanga, Anusara, and Hatha Yoga's. Uses flowing progressive postures, meditative awareness, and breath control.

PES 1085 Weight Training I
1:0.5:1.5 Fall, Spring, Summer
An introductory weight training course which provides the student with the needed information to develop a personalized strength program. Teaches proper lifting techniques. Demonstrates methods to increase muscular strength and endurance. Includes lab.

PES 1086 Weight Training II
1:0.5:1.5 Fall, Spring
An individualized intermediate course for students who wish to continue their weight training program. Students will write their own program and set standards of goals that are attainable throughout the training period.

PES 1087 Weight Training III
1:0.5:1.5 Not Offered
* Prerequisite(s): PES 1086 or instructor approval
An advanced course for students and varsity athletes who wish to maintain their individualized weight training program. Students will write their own program and set standards or goals that are attainable throughout the training period.

PES 1097 Fitness for Life
2:2:0 Fall, Spring, Summer
Provides information, tools, and skills to aid students in engaging in an active, healthy lifestyle throughout life. Offers the opportunity to learn about exercise program design, physiological adaptations that underlie fitness, and strategies to maintain an active lifestyle across the lifespan. Features access to high quality exercise facilities. Requires participation in exercise 2-3 days per week outside of the scheduled class activities. Stresses comprehensive principles in health, wellness, physical activity, and fitness assessment.

PES 1100 Tennis I
1:0.5:1.5 Fall, Spring, Summer
Covers the basic concepts of the game. Teaches general tennis skills including scoring, forehand, backhand, overhead, volley and net game, and service. Teaches basic tennis rules and strategy techniques. Includes labs, lectures, audio-visual, practice and inter-class participation. Taught on block only.

PES 1101 Tennis II
1:0.5:1.5 Fall, Spring, Summer
Covers more advanced techniques of tennis. Includes volley and half volley (net game) and technical shots - drop, lob and top spin. Includes labs, lectures, audio-visual, practice and inter-class participation. Covers the more competitive strategies for both singles and doubles. Taught on block only.

PES 1105 Badminton
1:0.5:1.5 Not Offered
Covers basic concepts of badminton. Includes scoring, forehand, backhand, overhead, net game, and service. Studies strategy techniques for both singles and doubles. Uses labs, lectures, audio-visual, practice and inter-class participation. Emphasizes skills, fundamentals, conditioning, and rules of the sport.

PES 1110 Racquetball I
1:0.5:1.5 Fall, Spring, Summer
Covers basic fundamentals of racquetball. Teaches the skills, rules and strategies necessary to play and enjoy racquetball. Uses demonstrations and labs, practice and inter-class participation.
Course Descriptions

PES 1111
Racquetball II
1:0.5:1.5  Fall, Spring
Includes advanced skills, rules and strategies in singles, doubles and cutthroat matches. Uses demonstration and labs, practice and inter-class participation. Successful completers should have developed a minimum of Level C skills.

PES 1130
Golf I
1:0.5:1.5  Fall, Spring, Summer
A beginning course designed to teach students fundamental techniques, rules and etiquette of the game. Includes instruction on equipment and golf techniques such as grip, stance, and swing. Provides practice rounds leading to in-class tournaments. Uses demonstrations and labs, practice and inter-class participation. Taught on block only.

PES 1131
Golf II
1:0.5:1.5  Fall, Spring
Designed to teach students advanced golf skills, rules, and strategies to be used in inter-class tournaments. Evaluates individual golf game strengths and weaknesses. Emphasizes playing according to USGA rules. Taught on block only.

PES 1135
Archery I
1:0.5:1.5  Spring
For beginners. Covers basic concepts of archery, both for target shooting and field hunting. Includes use of recurve and compound bows. Studies the language of archery. Includes laboratory sessions (both indoors and outdoors when weather permits), video instruction, demonstration, and shooting practice. Taught on block only. Course fee of $20 for support, equipment applies.

PES 1136
Archery II
1:0.5:1.5  Spring
Builds upon the basic concepts learned in PES 1135. Covers skills, fundamentals, conditioning, history, and rules of the sport. Includes lecture, labs, demonstration and practice (outdoors when weather permits), and video presentations. Taught on block only. Course fee of $20 for support, equipment applies.

PES 1145
Bowling I
1:0.5:1.5  Fall, Spring

PES 1146
Bowling II
1:0.5:1.5  Not Offered

PES 1155
Beginning Fencing
1:0.5:1.5  Not Offered
Teaches fencing strategy, analysis, focus form and precision. Provides aerobic exercise and analyzes fencing style. Completers should be familiar with competition rules, competition officiating and will participate in class tournament at the novice level. Course fee of $20 for equipment applies.

PES 1200
Basketball I
1:0.5:1.5  Fall, Spring
An introductory course designed to teach the basic skills of shooting, passing, ball handling, rebounding, etc. Introduces and practices new skills each class session. Provides regular scrimmage time. Designed for fun and good competition. Includes an exciting class tournament during the course.

PES 1201
Basketball II
1:0.5:1.5  Fall, Spring
Teaches advanced skills of shooting, passing, ball handling, rebounding, etc. Stresses fun and competition. Provides regular scrimmage time. Includes an exciting class tournament during the course.

PES 1204
Swimming I
1:0.5:1.5  Not Offered
Study swimming stroke technique. Includes floating, back floating, back stroke, breast stroke and front crawl. Students progress at their own pace. Includes lecture, media, demonstration and actual game situations. Stresses coordination, balance, agility, speed, endurance, team effort and team play.

PES 1205
Swimming II
1:0.5:1.5  Not Offered
Covers the basic concepts of swimming including ball control, heading, trapping, passing or dribbling and shooting. Teaches the rules of the game and the strategy of both offense and defense. Includes lecture, media, demonstration and actual game situations. Stresses coordination, balance, agility, speed, endurance, team effort and team play.

PES 1220
Basketball I
1:0.5:1.5  Fall, Spring
Expands upon and further develops the fundamental skills, techniques, tactics and rules from the PES 1211 course. Covers the following topics: defensive soccer tactics, offensive soccer tactics, soccer systems & strategies and conditioning for soccer. Topics will be practiced by using a variety of drills on the field individually and in groups/teams in order to further develop playing performance in real game settings. Examines soccer rules and regulations established by FIFA (Fédération Internationale de Football Association) and (United States Soccer Federation) USSF.

PES 1224
Soccer II
1:0.5:1.5  Not Offered
For men's and women's soccer team members. Designed for participation in competitive practice and team play. Advanced fundamentals and skills will be drilled. May be repeated once for credit toward graduation.

PES 1230
Soccer I
1:0.5:1.5  Not Offered
For non-swimmers and others interested in improving and maintaining their swimming ability. Students progress at their own pace. Covers breathing techniques, self rescue, floating, back floating, back stroke, breast stroke and front crawl. Students who pass off all of the required skills early will be put on an individualized swimming workout schedule. Individual attention will be given to students as needed. Course fee of $40 for support applies.

PES 1250
Ice Hockey
1:0.5:1.5  Fall, Spring
Teaches basic ice hockey skills including: skating (forwards, backwards, crossovers, spins, starts and stops), stick handling, passing, shooting. Practices offensive and defensive positioning, culminating in participating in several hockey games. The majority of the class will take place on the ice with short lectures and outside reading assignments. Course fee of $60 for support, equipment applies.

PES 1300
Swimming I
1:0.5:1.5  Not Offered
Covers the basic concepts of swimming including ball control, heading, trapping, passing or dribbling and shooting. Teaches the rules of the game and the strategy of both offense and defense. Includes lecture, media, demonstration and actual game situations. Stresses coordination, balance, agility, speed, endurance, team effort and team play.

PES 1310
Soccer I
1:0.5:1.5  Not Offered
Covers the basic concepts of swimming including ball control, heading, trapping, passing or dribbling and shooting. Teaches the rules of the game and the strategy of both defense and offense. Includes lecture, media, demonstration and actual game situations. Stresses coordination, balance, agility, speed, endurance, team effort and team play.

PES 1350
Soccer II
1:0.5:1.5  Not Offered
Expands upon and further develops the fundamental skills, techniques, tactics and rules from the PES 1211 course. Covers the following topics: defensive soccer tactics, offensive soccer tactics, soccer systems & strategies and conditioning for soccer. Topics will be practiced by using a variety of drills on the field individually and in groups/ teams in order to further develop playing performance in real game settings. Examines soccer rules and regulations established by FIFA (Fédération Internationale de Football Association) and (United States Soccer Federation) USSF.
PES 1301  
Swimming II  
1:0.5:1.5  
Not Offered
For swimmers who have a working knowledge of the basic strokes and are interested in improving their level of swimming. Provides an individually designed workout schedule for each student. Emphasizes stroke technique work on an individual basis. Course fee of $40 for support applies.

PES 1315  
Water Aerobics  
1:0.5:1.5  
Not Offered
For students interested in an alternative aerobics class. Introduces aerobic conditioning principles designed to develop the cardiovascular - respiratory systems, strength, and coordination. Course fee of $30 for support, equipment applies.

PES 1405  
Women's Safety Awareness and Self-Defense  
1:0.5:1.5  
Fall, Spring, Summer
A beginning course in women's self-awareness, self-empowerment, and self-defense. Emphasizes environmental awareness and strategies in avoiding dangerous situations. Teaches self-defense techniques that can be used in a crisis situation.

PES 1410  
Introduction to Tai Chi  
1:0.5:1.5  
Fall, Spring
Introduces students to an ancient Chinese martial exercise developed in China. Studies an effortless, low-impact, rhythmical ballet-like exercise that is a superior activity for all age levels. Stresses slow respiration and balanced, relaxed, slow postures. Promotes improved blood circulation, joint and bone strength. Focuses on the Yang style short form solo exercise which may be an effective means of self-defense.

PES 1415  
Survey of Martial Arts  
1:0.5:1.5  
Not Offered
Introduces and surveys many of the popular styles of martial arts. Includes brief background of history, learning fundamental kicks, strikes, blocks, holds and other moves/techniques of the following martial arts: Kenpo Karate, Jiu Jitsu, Muay Thai (kick boxing), Tai Chi, and self-defense strategies.

PES 1425  
Jiu Jitsu I  
1:0.5:1.5  
Fall, Spring
A beginning class in the martial art of Jiu Jitsu with an emphasis on Russian Sambo Jiu Jitsu also known as Combat Jiu Jitsu. Learn the basics of Jiu Jitsu including: grappling, take downs, escapes, arm locks, etc.

PES 1426  
Jiu Jitsu II  
1:0.5:1.5  
Not Offered
An intermediate class in the martial art of Jiu Jitsu. Practices and improves on the basics of Jiu Jitsu including: grappling, take downs, escapes, and arm locks.

PES 1435  
Kenpo Karate I  
1:0.5:1.5  
Fall, Spring
A beginning course in the martial art of Kenpo Karate. Introduces basic blocks, punches, strikes, and kicks. Emphasizes self-defense techniques.

PES 1436  
Kenpo Karate II  
1:0.5:1.5  
Fall, Spring
* Prerequisite(s): PES 1435 or Yellow Belt rank in Kenpo Karate
An intermediate course in Kenpo Karate for the student with the rank of yellow belt and above. Students work at their own pace and progress toward the next rank in the Kenpo system.

PES 1440  
Aikido  
1:0.5:1.5  
Fall, Spring
Covers beginning techniques to the art of self-defense. Teaches different holds and locks, using various forms of nonresistance in order to defend and prevent injury from an opponent.

PES 1460  
Kickboxing I  
1:0.5:1.5  
Fall, Spring
A beginning course in the martial art of kickboxing (Muay Thai). Discusses the history of Muay Thai, ring strategy, and the rules of the ring. Includes leg strengthening, shadow boxing, stretching, punches, elbows, kicks, and knees while contact is made to bags and kicking shields. Teaches self-defense, ring strategy and the requirements to advance to the second level of kickboxing (Muay Thai). Includes intense aerobic workout.

PES 1670  
Ice Skating  
1:0.5:1.5  
Fall, Spring
Teaches basic ice skating skills including forward and backward skating, turns, stops, crossovers, spins, and jumps. Students will choreograph and perform a developmentally appropriate ice skating program set to music. Course fee of $60 for support, equipment applies.

PES 2000  
Intercollegiate Athletics  
1:0.5:1.5  
Fall, Spring
* Prerequisite(s): Coach approval
May be repeated once for credit towards graduation.

PES 201R  
Elite Precision Team  
1:0.5:1.5  
Not Offered
* Prerequisite(s): Audition required
For students selected to be members of the Elite Precision Team. Includes performances at home basketball games, competition, and the year end showcase. Studies dance styles such as jazz, funk, hip hop, and lyrical. May be repeated once for credit towards graduation.

PES 2050  
Aerobic Instructor Training  
2:2:0  
Not Offered
For students interested in becoming Certified Aerobic Instructors. Teaches basic concepts of anatomy, physiology, components of fitness, nutrition, and exercise injuries. Emphasizes the use of music, cueing and choreography. Prepares students for the AFAA Certification test.

PES 2200  
Officiating Basketball  
2:2:0  
Not Offered
For students wishing to officiate in interscholastic, intramural, and community programs. Teaches rules, techniques, problems and procedures in officiating. Gives National Federation or OSA examinations. Introduces basketball National Federation publications such as Rule Book, Case Book, Umpires Manual and Rules (Simplified and Illustrated). Utilizes lecture, media, guest lecturers, practical game situations, etc.

PES 2220  
Officiating Volleyball  
2:2:0  
Not Offered
Provides students with the necessary skills to officiate the game of volleyball. Teaches both collegiate and high school rules and protocol. Provides students with a working understanding of officiating volleyball, as well as the opportunities for employment, through match observations and practical experience. Prepares students for certification as high school entry level official.

PES 2300  
Introduction to Fundamentals of Athletic Coaching  
2:2:0  
Fall
For coaches of youth and other interested community members. Overviews methods, teaching techniques, coaching philosophies and practical experiences in both team and individual sports. Includes lecture and demonstration, media presentations, game scouting, and field project and class journals. Stresses motivation, selection, discipline, management, and the technical aspects of coaching.

Course Descriptions
Course Descriptions

PES 2400
Sports Injuries
2:2:0 Fall
* Prerequisite(s): ZOOL 1090 or Permission of instructor
Prevention and care of fitness, sport, and physical education performance injuries. Emphasizes the responsibilities of the coach/PE teacher related to sport injuries. Examines recognition, cause, prevention and care of sports related injuries to specific body parts. Explores protective equipment, environmental factors, and nutritional considerations. Reviews injuries which occur to specific populations such as adolescent and elderly athletes. Course fee of $20 for materials applies.

PES 281R
Cooperative Work Experience
2 to 9:1:5 to 40 Not Offered
* Prerequisite(s): Approval of Cooperative Coordinator
Designed for Physical Education and Recreation majors. Provides paid on-the-job experiences in the student's major. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. Credit is determined by the number of hours a student works during the semester. May be repeated for a maximum of 16 credits toward graduation. May be graded credit/no credit.

PES 3220
Teaching and Coaching Basketball
2:2:0 Not Offered
* Prerequisite(s): University Advanced Standing
Designed for those planning to coach basketball. Overviews methods, teaching techniques, coaching philosophies and practical experiences in both team and individual sports. Includes lecture and demonstration, media presentations, game scouting and field project, and class journals.

PES 3230
Teaching and Coaching Football
2:2:0 Not Offered
* Prerequisite(s): University Advanced Standing
Prepares students for coaching football. Covers basic offensive and defensive philosophy and techniques. Covers organization, equipment, conditioning, and safety.

PES 3240
Teaching and Coaching Volleyball
2:2:0 Not Offered
* Prerequisite(s): University Advanced Standing
For any coach, volleyball player or fan interested in learning more about one of the fastest growing sports in America. Teaches how to coach volleyball. Presents principles that coaches or players can use as a foundation to create their own game. Develops a greater appreciation for volleyball. Stresses the skills, fundamentals, rules, teaching techniques, and coaching strategies behind the sport. Includes labs, videos, and guest lecturers.

PES 3250
Teaching and Coaching Aerobics and Cheerleading
2:2:0 Not Offered
* Prerequisite(s): University Advanced Standing
Teaches basic aerobic principles including concepts of anatomy, physiology, and exercise injuries. Emphasizes choreography, cueing, and the use of music. Also, introduces basic cheerleading skills and methods of teaching kicks, jumps, and tumbling. Presents skills necessary to teach an aerobic class and advise a cheerleading program.

PES 3260
Teaching and Coaching Baseball and Softball
2:2:0 Not Offered
* Prerequisite(s): University Advanced Standing
Designed for those planning to coach baseball or softball. Covers teaching techniques, coaching philosophies and building a program. Includes strategy of team selection and offensive and defensive planning. Studies game skills.

PES 4900
Exercise Science Senior Practicum
3:3:0 Not Offered
* Prerequisite(s): EXSC 3700, EXSC 4000, EXSC 4100, and University Advanced Standing
Emphasizes application of physical activity promotion in a variety of settings. Options include service learning, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. Credit is determined by the number of hours a student works during the semester. May be repeated for a maximum of 16 credits toward graduation. May be graded credit/no credit.

PETE 2100
Fitness for Secondary Physical Educators
1:0:2 Spring
* Prerequisite(s): PES 1097
Provides and enhances preservice teachers' abilities to teach Fitness for Life and other health-related fitness concepts and classes for students in grades 6-12. Focuses on evaluation and performance of a variety of developmentally appropriate fitness activities. Trains preservice teachers to develop appropriate lesson plans for secondary students, as well as how to help individual students develop personalized fitness programs.

PETE 2150
Elementary Physical Education SPARK Method
2:2:0 Not Offered
Prepares future classroom teachers, recreation leaders, and interested health and fitness professionals to instruct physical activity classes. Focuses on experiential learning.

PETE 2200
Skill Analysis II
3:2:2 Not Offered
* Prerequisite(s): PETE 2100
Builds on concepts covered in PETE 2100. Analyzes a variety of individual and dual sport skills, rules, and strategies. Prepares pre-service physical educators to effectively teach current, as well as yet to be developed, individual and dual sports through analysis of concepts common to individual and dual games and sports. Analyzes and develops developmentally appropriate teaching progressions for individual and dual sport skills. Examines rules and strategies for a variety of individual and dual games and sports. Course fee of $52 for support, equipment applies.

PETE 2210
Racket Sport Analysis and Teaching Progressions
1:0:2 Fall
Introduces skills, concepts, and rules to help teachers and coaches teach racket sports to youngsters in grades K-12. Focuses on positive transfer of learning between various racket sports, including pickleball, racquetball, badminton, speedminton, and tennis. Explores and implements developmentally appropriate progressions for key skills and strategies, especially those common to all racket sports.

PETE 2220
Target Sport Analysis and Teaching Progressions
1:0:2 Spring
Introduces skills, concepts, and rules to help teachers and coaches teach target sports to youngsters in grades K-12. Focuses on helping teachers and coaches use positive transfer to enhance the teaching of skills, strategies, and concepts common to target games and sports. Developmentally appropriate progressions for key skills and strategies will be explored and implemented. Covers the main target sports: archery, bowling, golf, and disc golf.

Physical Education
Teacher Ed (PETE)

PETE 2100
Skill Analysis I
3:2:2 Not Offered
Analyzes fundamental motor skills, movement concepts, and selected fundamental sport skills. Trains students to give effective feedback to individuals learning fundamental motor skills, movement concepts, and selected fundamental sport skills. Teaches methods for developing individualized learning through the use of developmentally appropriate progressions to move students from the pre-control level, through the control, utilization, and proficiency levels for each skill.

PETE 2110
Elementary Motor Skill Analysis and Performance
1:0:2 Fall
Covers fundamental motor skill and movements concepts appropriate for elementary and middle school students. Includes educational gymnastics, jump rope, tumbling, lummi sticks, parachute, and simple juggling skills. Requires students to assess their own skill performances as well as others' performances. Performance of all skills at the utilization level of the Generic Level of Skill Proficiency (GLSP) scale or above is expected.
PETE 2230  
Individual Sports: Track and Field and Tumbling  
1:0:2  
Fall  
* Prerequisite(s): PES 1097

Introduces Track and Field events taught in K-12 schools in Utah. Includes fundamental tumbling skills appropriately taught to K-12 students. Focuses on developmentally appropriate progressions for all learners. Includes hints to enhance positive transfer from a previously learned skill to a new skill, specifically individual sport skills and concepts.

PETE 2300  
Skill Analysis III  
3:2:2  
Not Offered  
* Prerequisite(s): PETE 2200 or permission of instructor

Builds on concepts covered in PETE 2200. Analyzes a variety of team sport skills, rules, and strategies. Prepares pre-service physical educators to effectively teach current, as well as yet to be developed, team sports through analysis of concepts common to team games and sports. Analyzes and develops developmentally appropriate teaching progressions for team sport skills. Examines rules and strategies for a variety of team games and sports. Course fee of $14 for equipment, software applies.

PETE 2310  
Invasion Sports: Soccer and Team Handball  
1:0:2  
Fall

Introduces skills, concepts, and rules to help teachers and coaches teach soccer and team handball to youngsters in grades K-12. Focuses on helping teachers and coaches use transfer to enhance the teaching of skills and concepts common to all invasion games, as well as to soccer and team handball specifically. Explores and implements developmentally appropriate progressions for key skills and strategies in soccer and team handball.

PETE 2320  
Teaching and Analyzing Basketball and Volleyball  
1:0:2  
Spring

Introduces skills, concepts, and rules to help teachers and coaches teach basketball and volleyball to youngsters in grades K-12. Focuses on helping teachers and coaches use positive transfer to enhance student learning. Explores and implements appropriate progressions for key skills and strategies in volleyball and basketball.

PETE 2330  
Team Sports for the Physical Educator  
1:0:2  
Spring

Introduces skills, concepts, and rules to team sports appropriate for secondary physical education classes. Sports covered may vary due to weather and current popularity in local schools. Possible sports include: touch rugby, lacrosse, floor hockey, field hockey, flag football, and softball.

PETE 2400  
Skill Analysis Capstone  
1:0:5:2  
Fall  
* Prerequisite(s): PETE 2110, PETE 2120, PETE 2210, PETE 2220, PETE 2230, PETE 2310, PETE 2320, PETE 2330

Review and perform skills needed for successful demonstration in physical education classes, with emphasis on any skills not performed successfully in prerequisite courses. Utilizes cues and critical elements for teaching motor skills, movement concepts and strategies covered in prerequisite courses. Analyze skill performances and game strategies. Demonstrate minimum water safety techniques.

PETE 2700  
Foundations of Physical Education K-12 Teacher Education  
3:3:0  
Fall, Spring

Introduces the Physical Education K-12 Teacher Education Program. Includes introductions to National Initial Physical Education Teacher Standards, NASPE Standards, Appropriate Practices documents, Professional Associations, History and Philosophy of Physical Education, and Motor Development theories. Prepares students to succeed in the UVU PETE Program.

PETE 289R  
Early Undergraduate Research in Physical Education Pedagogy  
1 to 4:0:5 to 20  
Not Offered  
* Prerequisite(s): EXSC 270G and departmental approval of research proposal.

Provides students an early opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is appropriate for Physical Education Pedagogy and worthy of communication to a broader audience. May be repeated for a maximum of 6 credits toward graduation.

PETE 3100  
Physical Education Pedagogy  
3:2:2  
Fall  
* Prerequisite(s): University Advanced Standing  
* Prerequisite(s) or Corequisite(s): PES 1097 and PETE 2700 and PETE 2110 and PETE 2210 and PETE 2220 and PETE 2230 and PETE 2310

Promotes the acquisition and application of effective teaching skills for K-12 physical education, including focus on the National Standards for Physical Education. Includes observations and experiences with K-12 students and faculty. Introduces and works toward meeting the National Initial Physical Education Teacher Education Standards. Introduces content necessary to succeed in all upper-division PETE courses.

PETE 3400  
Elementary Classroom Teachers as Movement Educators  
2:2:0  
Not Offered  
* Prerequisite(s): (Admission to professional elementary education program or instructor approval) and University Advanced Standing

For elementary education majors. Presents characteristics of quality physical education programs. Encourages classroom teachers to incorporate physical activity throughout the day. Identifies appropriate practices and activities for teaching movement to all children.

PETE 3450  
Special Populations in Physical Education  
3:2:3  
Spring  
* Prerequisite(s): PETE 3100, EDSP 3400, and University Advanced Standing

Involves planning and conducting physical education programs for children with special needs. Incorporates hands-on experiences working with individual with special needs. Analyzes a variety of possible adaptations for individuals with physical, sensory, emotional, and/or intellectual impairments.

PETE 4200  
Methods of Teaching Elementary Physical Education  
3:2:2  
Spring  
* Prerequisite(s): PETE 3100 and University Advanced Standing  
* Corequisite(s): PETE 4210

Examines rules and strategies for a variety of team games and sports. Analyzes and implements appropriate progressions for key skills and strategies in soccer and team handball specifically. Explores and implements developmentally appropriate teaching progressions for team sport skills. Examines rules and strategies for a variety of team games and sports. Analyzes and implements appropriate progressions for all learners. Includes hints to enhance positive transfer from a previously learned skill to a new skill, specifically individual sport skills and concepts.

PETE 4210  
Elementary Physical Education Field Experience  
1:0:3  
Spring  
* Prerequisite(s): University Advanced Standing  
* Corequisite(s): PETE 4200

Analyzes elementary physical education curricula through guided observations and controlled teaching experience. Applies curricular concepts through a guided observation, self-appraisal, lesson/unit planning, and teaching children. Course fee of $78 for practical experience applies.

PETE 4250  
Methods of Teaching Secondary Physical Education  
3:2:2  
Spring  
* Prerequisite(s): EXSC 3550, PETE 4200, PETE 4400, acceptance into UVU's Secondary Education program and University Advanced Standing  
* Corequisite(s): PETE 4260  
* Prerequisite(s) or Corequisite(s): PETE 2400

Applies learning from all previous courses to the successful teaching of secondary physical education. Emphasizes the attainment of all current National Initial Physical Education Standards at the acceptable level or above.

PETE 4260  
Secondary Physical Education Field Experience  
1:0:3  
* Prerequisite(s): University Advanced Standing  
* Corequisite(s): PETE 4250

Requires a minimum of 20 hours of assisting and teaching in local secondary schools. Includes at least two opportunities to plan for and teach a class of secondary students.
Course Descriptions

PETE 4400
Assessment in Physical Education
3:2:2 Spring
* Prerequisite(s): (MAT 1000 or higher mathematics course), PETE 2110, PETE 2210, PETE 2230, PETE 2310, PETE 3100, and University Advanced Standing
* Prerequisite(s) or Corequisite(s): PETE 2120, PETE 2220, PETE 2320, PETE 2330
Examines the need for valid assessment in K-12 physical education programs. Encourages the development and use of a variety of assessment instruments. Inspires the use of assessment to enhance learning and reliably determine student progress toward stated objectives. Urges development of a meaningful grading system that communicates student progress toward course objectives and NASPE standards. May be delivered hybrid.

PETE 481R
Undergraduate Research in Physical Education Teacher Education Internship
1 to 4:0:5 to 20 Not Offered
* Prerequisite(s): PETE 1097, EXSC 3500, EXSC 3550, PETE 2220, PETE 2300, PETE 3100, and University Advanced Standing
Encourages students to apply learning in a professional setting. Allows students practical experience working at a physical education teaching or coaching related job. May be repeated for a maximum of 8 credits toward graduation. May be graded Credit/No Credit.

PETE 489R
Undergraduate Research in Physical Education Teacher Education
1 to 4:0:5 to 20 Not Offered
* Prerequisite(s): PETE 3100, department approval of research proposal, and University Advanced Standing
Provides students the opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is appropriate for Physical Education Pedagogy and worthy of communication to a broader audience. May be repeated for a maximum of 8 credits toward graduation.

PETE 4900
Student Teaching Seminar for Physical Education
2:2:0 Spring
* Prerequisite(s): Admission to Professional Education Program, successful completion of all professional education and content courses, and University Advanced Standing
* Corequisite(s): EDSC 4850
Examines each student's teaching experiences. Encourages students to integrate learning from each all professional education and content courses. Discusses concerns related to current teaching experiences as well as future experiences. Investigates job seeking criteria and opportunities. Supports pre-service teachers during their student teaching experience.

Philosophy (PHIL)

PHIL 1000
Introduction to Philosophy
3:3:0 Fall, Spring, Summer
Designed to investigate major philosophical ideas from the Pre-Socratic era to the present. Students should develop philosophical skills through supervised analysis of readings in epistemology (knowledge), metaphysics (reality), ethics (values), and social philosophy. Emphasizes the articulation, assessment, and discussion of fundamental religious, social, political issues through class discussions, lectures, media, and writing projects.

PHIL 100H
Introduction to Philosophy
3:3:0 Fall, Spring
* Prerequisite(s): ENGL 1010
Designed to investigate major philosophical ideas from the Pre-Socratic era to the present. Students should develop philosophical skills through supervised analysis of readings in epistemology (knowledge), metaphysics (reality), ethics (values), and social philosophy. Emphasizes the articulation, assessment, and discussion of fundamental religious, social, political issues through class discussions, lectures, media, and writing projects.

PHIL 120R
Philosophy Forum
1:1:0 Fall, Spring
Introduces students to the interchange of traditional and contemporary philosophical issues in various venues. Provides enriched learning situations in which students may interact with noted guest scholars. Includes lectures, symposia, field trips, outreach projects, and activities oriented to engage students in philosophical discourse. Meets in conjunction with the Philosophy Club. Grading is on a credit/no credit basis. May be repeated for a total of four credits toward the AA/AS, BA/BS degree.

PHIL 1250
Introduction to Logic and Critical Thinking
3:3:0 Fall, Spring, Summer
Introduces fundamental elements of informal logic and applies these to critical thinking. Covers subjects such as (but not limited to) definition, argument, fallacy, deduction versus induction, validity, soundness, induction, causal reasoning, abductive reasoning, analogical reasoning, and probability.

PHIL 130R
Ethics Forum
1:0:3 Fall, Spring
Introduces students to a wide variety of public policy and ethical issues. Provides enriched learning situations in which students are exposed to noted guest scholars and other lecturers. Includes attendance and participation at specified events by engaging in discussion of relevant issues. May be repeated for a maximum of 3 credits toward graduation.

PHIL 1610
Introduction to Western Religions
3:3:0 Fall, Spring, Summer
For students majoring in humanities related disciplines and other students interested in the academic study of religion. Presents the comparative study of the history, ritual, *theology,* and ethical beliefs of the major western religions including Judaism, Christianity, Islam, Zoroastrianism, Bahá’i, and nontraditional religious belief in the western world. Explores similarities and differences between them by examining the primary sources and sacred texts along with the unique beliefs and practices of each tradition.

PHIL 1620
Introduction to Eastern Religions
3:3:0 Fall, Spring, Summer
For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Presents the comparative study of the history, ritual, *theology,* and ethical beliefs of the major eastern religious traditions including Hinduism, Jainism, Buddhism, Sikhism, Taoism, Confucianism, and Shintoism. Explores similarities and differences between them by examining the primary sources and sacred texts along with the unique beliefs and practices of each tradition.

PHIL 2000
Formal Logic I
3:3:0
Introduces the basic elements of categorical logic as well as formalized propositional logic and formalized first-order quantificational logic. Includes Venn diagrams, proofs, truth tables, tableaux and translations from natural language.

PHIL 2050
Ethics and Values
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 1010; ENGL 2010/ENGL 2020 highly recommended
Challenges students to (1) explore and clarify their values; (2) critically read works of philosophy, literature, religion, and history toward understanding the basis of their ethical views; and (3) read, study, research, discuss, and write about difficult ethical issues. Focuses on issues of good vs. evil, justice vs. injustice, equality vs. inequality, and the necessity of defining and examining happiness and values. Engages students in serious reflection on issues of ethics and values as they relate to the students' own lives. May be delivered hybrid.
Challenges students to (1) develop knowledge and recognition of complexities inherent in global and intercultural issues, focusing on their ethical and normative dimensions with an emphasis on issues of ethics and values, (2) develop the ability to interrelate knowledgeably, reflectively, responsibly, and respectfully with a society of increasing intercultural connections, (3) critically read works of philosophy, literature, religion, and history toward understanding the basis of their ethical views; and (4) read, study, research, discuss, and write about difficult ethical issues. Focuses on global and intercultural issues with an emphasis on their ethical and normative dimensions. Engages students in serious reflection on issues of ethics and values as they relate to the students' own lives as knowledgeable, thoughtful, reflective, responsible, and respectful citizens within a society of increasing intercultural connections. May be delivered hybrid and/or online.

PHIL 205G
Ethics and Values
3:3:0  Fall, Spring, Summer
* Prerequisite(s): ENGL 1010; ENGL 2010 or ENGL 2020 highly recommended Systematically explores the core issues in the realm of ethics and values, especially as they relate to life in the contemporary world. Focuses on good versus evil, justice versus injustice, and the necessity of ideals and equality. Emphasizes reading and writing skills at a more challenging level.

PHIL 2100
Ancient Greek Philosophy
3:3:0  Fall, Summer
* Prerequisite(s): ENGL 1010 or ENGL 101H or PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or permission of the instructor Provides students with an overview of the history and evolution of philosophical thought from its origins in pre-Socratic philosophers through Aristotle. Reviews the influence of pre-Socratic ideas upon the work of Plato and Aristotle and the impact of Greek philosophy on the evolution of Western philosophy, science, and culture. Requires writing-intensive assignments.

PHIL 2130
Medieval Philosophy
3:3:0  On Sufficient Demand
* Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or permission of the instructor Provides an overview of the development of philosophical thought from the Hellenistic period through Thomas Aquinas. Covers the influence of Ancient Greek philosophy and the impact of Christianity upon the evolution of Western philosophical thought. Carefully considers the conceptions of God, nature, the human being, and morality advanced during this period; along with the profound impact Medieval philosophy had on the European Enlightenment and modern philosophy.

PHIL 2150
Early Modern Philosophy
3:3:0  Spring, Summer
* Prerequisite(s): ENGL 1010 or PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or permission of the instructor Provides an overview of the history and evolution of ideas in Western culture during the modern period of philosophy from Descartes through Kant. Focuses on the dialogue between rationalism and empiricism, and examines Kant's attempt to bridge the gap between these two approaches. Requires writing-intensive assignments.

PHIL 281R
Internship
1 to 6:0:5 to 30  On Sufficient Demand
* Prerequisite(s): Permission from departmental chair Allows philosophy students to receive credit for service as an intern in a governmental, not for profit, or private agency apart from their regular employment. Provides practical and research development in selected areas of service related to students' academic and/or professional interests or goals. Internship must be supervised by agency representative. Must be approved by philosophy internship advisor and department chair and written contracts must be completed and signed. Repeatable for a maximum of six credit hours toward graduation. May be graded credit/no credit.

PHIL 290R
Independent Study
1 to 3:0 to 12  On Sufficient Demand
* Prerequisite(s): Permission from departmental chair Provides independent study as directed in reading and individual projects. Request must be submitted for approval by the department. Students may do independent study for one, two or three credits with a limit of three credits applying toward graduation with an AA/AS degree.

PHIL 295R
Directed Readings
1 to 3:0 to 12  On Sufficient Demand
Provides an opportunity for second year students to do in-depth research within the discipline of Philosophy. Study is limited to advanced work beyond that which can be completed in existing, available classes. A proposal must be submitted and approved by the department prior to enrollment.

PHIL 3000
Formal Logic II
3:3:0  Spring
* Prerequisite(s): PHIL 2000, University Advanced Standing Continues the exploration of first-order quantification logic. Includes discussion of multiple quantification, formal syntax and semantics, proofs, truth-tables, tableaux, algebra of classes, set theory, and the metalogical properties of formal systems.

PHIL 3010 (Cross-listed with: COMM 3000)
Media Ethics
3:3:0  Fall, Spring
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing Covers ethical issues in media communication. Includes discussions of ethnicity, gender, nationalism, and conflict. Demands development of moral agency. Examines tensions between individual freedoms and social responsibilities. Addresses ethical questions in the context of current struggles within and over corporate and public media.

PHIL 3150
Philosophical Issues in Feminism
3:3:0  Spring
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing Introduces students to various themes in feminist philosophy. Focuses on the concepts of sex and gender, including such issues as the nature, explanatory import and normative implications of biological sex differences, the sex/gender distinction, the idea of gender as a social construct, the structure and impact of gender oppression and the nature and value of the norms of femininity and masculinity.

PHIL 3160
Gender Values Knowledge and Reality
3:3:0  On Sufficient Demand
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing Examines the impact of gender on specific areas of philosophy including, but not limited to, aesthetics, ethics, social and political philosophy, epistemology, metaphysics, philosophy of religion, philosophy of science, philosophy of language and the history of philosophy. Examines the meaning of gender with an emphasis on the diversity of experience across varying gender roles.

PHIL 3200
Metaphysics
3:3:0  Fall
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing Acquaints the student with competing abstract philosophical problems concerning the general nature and structure of reality. Examines the history and problems of metaphysics including, but not limited to: personal identity, causation, causal determinism, the nature of universals, anti-realism, realism, change, substance and essence, space and time, and philosophy of mind.

PHIL 3300
Epistemology
3:3:0  Spring
* Prerequisite(s): (PHIL 1000 or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing Explores diverse theories of knowledge from within the Western tradition. Includes concepts of truth and falsity, skepticism, justification, identity, and intentionality. Discusses empiricism, rationalism and twentieth-century Philosophy of Mind.
PHIL 3400 Philosophy of Science 3:3:0 Not Offered
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing
Explores fundamental issues in the philosophy of science. Includes the structure of the scientific method, scientific explanation, and the epistemological status of scientific laws and theories.

PHIL 3450 Philosophy of Childhood 3:3:0 Not Offered
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing
Examines philosophical theories and models of childhood, their implication on contemporary conceptions, controversial social, philosophical, legal, educational, and political issues pertaining to childhood, and the capacity of children to engage in philosophical dialogue.

PHIL 3460 The Ethics of Human/Animal Relationships 3:3:0 Not Offered
* Prerequisite(s): (PHIL 2050 or PHIL 205G or PHIL 205H or PHIL 1000 or PHIL 100H) and University Advanced Standing
Introduces a comprehensive philosophical and academic investigation of the relationship between human and nonhuman animals. Develops and refines critical thinking and discursive strategies for evaluating traditional and contemporary philosophical, legal, religious, moral, and social considerations that inform human attitudes about nonhuman animals. Challenges students to analyze a range of pertinent topics, including, but not limited to: animal welfare, animal liberation, animal sentience and consciousness, animal rights, the animal ethics movement, the animal rights movement, religious attitudes, animals, animal law, and animal activism.

PHIL 3470 Pragmatism and American Philosophy 3:3:0 Fall
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing
Introduces students to various philosophical themes and figures unique to classical American Philosophy and American Pragmatism. Focuses on assorted thematic topics characteristic of American Pragmatism, as well as the work of the American transcendental school and various philosophical writings from American women, such as Jane Addams, and African-American philosophers, such as Alain Locke.

PHIL 3510 Business and Professional Ethics 3:3:0 Fall
* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G) and University Advanced Standing
Develops concepts and philosophies essential to understanding ethical concerns in today's business and professions. Presents current case studies and theories about business ethics and helps students determine their own attitudes about contemporary and historical business morality. Examines a variety of approaches, solutions, and methods of critically thinking about ethics in business and professions.

PHIL 3520 Bioethics 3:3:0 Fall
* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G or instructor approval) and University Advanced Standing
Shows how ethical theories can help provide frameworks for moral decision-making in the wake of recent scientific, technological, and social developments which have resulted in rapid changes in the biological sciences and in health care. Topics include: codes of ethics, ethical theories, and practical applications, such as: professional-patient relationships, genetic engineering, euthanasia, managed health care, end-of-life issues, abortion, and reproductive technologies.

PHIL 3530 Environmental Ethics 3:3:0 Spring
* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G) and University Advanced Standing
Presents a comprehensive, balanced introduction to the field of environmental ethics. Examines a variety of national and international environmental issues. Challenges students to think and write critically about classic and contemporary works on ethics and the environment. Analyzes ethical, scientific, aesthetic, political, economical and religious perspectives pertaining to the environment.

PHIL 3540 (Cross-listed with: RLST 3540) Christian Ethics 3:3:0 On Sufficient Demand
* Prerequisite(s): PHIL 1610 and University Advanced Standing
Examines key developments and conceptions in Christian ethics through historical and conceptual methodologies. Explores the relationship between religious and secular approaches to ethics in their approach to questions of war, economics, politics, and/or other relevant issues.

PHIL 3550 Moral Philosophy 3:3:0 Fall, Spring
* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G or instructor approval) and University Advanced Standing
Surveys the history of moral and ethical philosophy from the Ancients to contemporary figures. Focuses on the following issues and theories: The good, moral reasoning and judgment, objectivism vs. conventionalism and relativism: natural law theory, ethical egoism, hedonism, virtue ethics, deontology, consequentialism, utilitarianism. Materialism, moral sentiment, roles of emotion and reason in ethical and moral deliberation and judgment, as well as race, gender, and sexuality in ethics. Figures examined may include: Plato, Aristotle, Augustine, Aquinas, Hobbes, Shaftesbury, Hutcheson, Hume, Kant, Mill, Nietzsche, de Beauvoir, Sartre, Camus, Frankena, Rawls, Harman, MacIntyre, Held, and hooks.

PHIL 357R Moral Reasoning Through Case Studies: Ethics Bowl 3:3:0 Fall, Spring
* Prerequisite(s): (PHIL 2050 or PHIL 205G or PHIL 205H) and University Advanced Standing
Studies complex, contemporary ethical issues and develops an advanced understanding of principles and theories studied in other ethics and moral theory courses. Uses a case study approach to ethical inquiry and introduces students to the content, format, rules, and procedures of the National Collegiate Ethics Bowl competition. Required for those students who wish to participate in the regional and national competitions and provides a challenging opportunity for others who are interested in participating in exciting ethical deliberations and discussions. May be repeated for up to 9 credits for graduation with approval of instructor and department chair.

PHIL 3600 Philosophy of Religion 3:3:0 Fall
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing
For students majoring in humanities related disciplines and others interested in the academic study of religion. Teaches critical thinking methods and strategies regarding traditional philosophical issues in religious belief and practice. Explores various topics including the theoretical arguments for the existence of God, religious experience, the relation between faith and reason, religious pluralism, and the traditional problem of evil.

PHIL 3610 (Cross-listed with: RLST 3610) Introduction to Christian Theology 3:3:0 On Sufficient Demand
* Prerequisite(s): PHIL 1610 and University Advanced Standing
Examines key developments and conceptions in Christian theology through historical and conceptual methodologies.

PHIL 3620 (Cross-listed with: RLST 3620) Mormon Theology and the Christian Tradition 3:3:0 On Sufficient Demand
* Prerequisite(s): PHIL 1610 and University Advanced Standing
For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Engages students in exploring the defining features of Mormon thought in relation to the broader Christian tradition. Examines traditional theological questions such as the problem of evil, the scriptural canon, the nature of God and humanity, and the role of ritual.
PHIL 3650 (Cross-listed with: RLST 3650) Approaches to Religious Studies
3:3:0 Spring
* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G or instructor approval) and University Advanced Standing

For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Teaches methodological approaches and critical thinking strategies in the study of religion. Explores various disciplines in their approaches to religious belief and practice. Includes the study of such thinkers as David Hume, Immanuel Kant, Friedrich Schleiermacher, Rudolf Otto, William James, Ludwig Feuerbach, Soren Kierkegaard, Max Weber, Emile Durkheim, John Hick, and Rene Girard.

PHIL 366R (Cross-listed with: RLST 366R) Issues in Religious Studies
3:3:0 Fall, Spring, Summer
* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G or instructor approval) and University Advanced Standing

For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Addresses specific topics and theoretical approaches related to religious studies. Topics may include religion and violence, religion and public discourse, religious ritual, etc. Subject matter varies by semester and is repeatable for a total of 9 hours of credit.

PHIL 3700 Social and Political Philosophy
3:3:0 Spring
* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G) and University Advanced Standing

Addresses ethics on the social level by exploring a variety of answers to the question: What is the best social structure? Covers concepts of justice, equality, liberalism, communitarianism, capitalism, democracy, feminism, multi-culturalism, and other topics.

PHIL 3710 Philosophy of Law
3:3:0 Fall
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Introduces topics in the philosophy of law, such as the role, nature, extent, and justification of law. Investigates challenging questions about the rule of law, civil disobedience, the relationship between law and morality, justice, equality, responsibility, and punishment. This course is not approved for credit toward any of the American Bar Association-approved degrees or certificates at Utah Valley University.

PHIL 3750 Marxist Philosophy
3:3:0 Spring
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Examines the political philosophy of Karl Marx and Engels, including Marx's legacy for 20th century and contemporary philosophy. Topics may include: Marx's criticism of Hegel and Hegelian Idealism, Marx's philosophy as "ideology critique," Marx's "materialist" philosophy, Marx's critique of capital, and several of the following: early 20th century Marxist political philosophy, Critical Theory, structuralist Marxism, phenomenological Marxism, materialist feminism, and post-Marxism.

PHIL 3800 (Cross-listed with: HUM 3800) Aesthetics
3:3:0 Fall
* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G and HUM 1010 or HUM 101G or HUM 101H) and University Advanced Standing

Examines history, issues, and philosophical theories of education with attention to associated metaphysical, epistemological, ethical, political, and ideological assumptions.

PHIL 3810 Existentialism and Phenomenology
3:3:0 Not Offered
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Explores two of the most important and influential traditions within modern and contemporary philosophy. Covers figures such as Kierkegaard, Nietzsche, Husserl, Heidegger, Sartre, Camus, Merleau-Ponty, de Beauvoir, Gadamer, Levinas, Ricoeur, and Derrida, and issues in epistemology, metaphysics, ethics and aesthetics. The course focuses in particular on the notions of subjectivity, agency, free-will, and truth.

PHIL 3820 (Cross-listed with: HUM 3820) Philosophy through Literature
3:3:0 On Sufficient Demand
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Examines history, issues, and philosophical theories of education with attention to associated metaphysical, epistemological, ethical, political, and ideological assumptions.
PHIL 4140 History of Analytic Philosophy
3:3:0 Not Offered
* Prerequisite(s): (PHIL 2150 or instructor approval) and University Advanced Standing

Explores the history of Analytic Philosophy from the late 19th century to the present. Includes the study of such figures as Bertrand Russell, B. Bolzano, Gottlob Frege, Ludwig Wittgenstein, Rudolph Carnap, G.E. Moore, J.L. Austin, Gilbert Ryle, W.V.O. Quine, and Fredrich Waismann. Studies methods of movements such as Logical Empiricism, and Ordinary Language Philosophy. Explores views such as Logicism, Logical Atomism, Holism, Verificationism, Logical Behaviorism, Psychologism, Nominalism, and Realism.

PHIL 4150 History of Continental Philosophy
3:3:0 Fall
* Prerequisite(s): (PHIL 2150 or instructor approval) and University Advanced Standing

Explores continental European philosophy. Reviews Kant's "critical" philosophy. Examines Hegel's attempt to go beyond the limitations of critical philosophy by creating a systematic, dialectical philosophy. Examines the following traditions as responses to Hegel: Western Marxism, Existentialism, Phenomenology, Structuralism, Post-Structuralism and "Deconstruction," Post-Modernism, Psychoanalysis, and Feminism.

PHIL 4200 Symbolic Logic
3:3:0 On Sufficient Demand
* Prerequisite(s): PHIL 3000 and University Advanced Standing

Discusses the philosophical motivation for the formalization of logic. Introduces the metatheory for propositional and quantification logic. Includes proofs of the soundness and completeness of quantification logic. Discusses the philosophical issues surrounding the results proved. May also include some discussion of important results in computability.

PHIL 4300 Environmental Aesthetics
3:3:0 Spring
* Prerequisite(s): PHIL 1000, PHIL 100H, PHIL 2050, PHIL 205H, PHIL 205G, ENST 3000, HUM 1010, HUM 101H, HUM 101G, or HUM 3500 and University Advanced Standing

Discusses the philosophical issues surrounding the results in environmental aesthetics. Evaluates concepts and attitudes toward nature including, but not limited to, the concept of beauty in natural and human-made environments from a cross-cultural perspective. Studies environmental formalism, cognitivism and non-cognitivism, as well as divergent spiritual, ecological, religious, and moral approaches to the appreciation of nature.

PHIL 4460 Philosophy of Psychology
3:3:0 Not Offered
* Prerequisite(s): (PHIL 2050, PHIL 205G, PHIL 205H, PSY 1010, or PSY 101H) and University Advanced Standing

Offers an interdisciplinary exploration of questions that arise when psychologists explore cognition and behavior concerning philosophical issues and when philosophers explore questions that rely on empirical claims about cognition and behavior. Surveys topics such as situationism and virtue ethics, moral intuitions, well-being, emotions, moods, positive illusions and free will, automatically, confabulation, mental illness and psychopathy.

PHIL 4461 Moral Psychology
3:3:0
* Prerequisite(s): (PHIL 2050 or PHIL 205G or PHIL 205H or PSY 1010 or PSY 101H) and University Advanced Standing

Analyzes questions about how people engage in moral thinking and in moral behavior from the perspectives of the philosophy of mind, ethics and psychology. Explores topics such as virtue and character, reason and passion, altruism and egoism, agency and responsibility, and moral intuitions.

PHIL 4470 Philosophy of Mind
3:3:0 Not Offered
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Explores central questions concerning the nature of the mind. Includes such topics as personal identity, the mind-body problem, other minds, mental causation, and externalism.

PHIL 4480 Philosophy of Language
3:3:0 Spring
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing


PHIL 4500 Interdisciplinary Senior Ethics Seminar
3:3:0 Fall, Spring, Summer
* Prerequisite(s): Instructor approval and University Advanced Standing

For integrated studies majors and other interested students. Addresses ethical issues dealing with discipline specific subject matter, i.e., nursing, behavioral, physical, social sciences, etc. Subject matter will vary each semester. Taught by Philosophy faculty in cooperation with faculty of appropriate departments. Repeatable three times for credit with different subjects. See Philosophy Department office for specific topics.

PHIL 451R Ethical Theory Seminar
3:3:0 On Sufficient Demand
* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G or instructor approval) and University Advanced Standing

Offers detailed investigation of selected ethical theories central to the Western philosophical tradition. Repeatable up to 12 credit hours with different topics.

PHIL 481R Internship
1 to 6:0:5 to 30 Fall, Spring, Summer
* Prerequisite(s): Departmental chair approval and University Advanced Standing

Allows philosophy students to receive credit for service as an intern in a governmental, not for profit, or private agency apart from their regular employment. Provides practical and research development in selected areas of service related to students' academic and/or professional interests or goals. Internship must be supervised by agency representative. Must be approved by philosophy internship advisor and department chair and written contracts must be completed and signed. Repeatable for a maximum of 6 credit hours toward graduation. May be graded credit/no credit.

PHIL 490R Independent Study
1 to 3:0 to 3:0 to 12 On Sufficient Demand
* Prerequisite(s): Departmental Approval and University Advanced Standing

Provides independent study as directed in reading and individual projects. May be repeated for up to 6 total credits toward graduation.

PHIL 4910 Philosophy Research Capstone
3:3:0 Fall, Spring, Summer
* Prerequisite(s): (PHIL 1250 or PHIL 2110 or PHIL 2150), Senior Standing, and University Advanced Standing

To be taken during the student's last semester in the baccalaureate program. Includes writing a senior thesis, which points to post-baccalaureate career path or graduate school goals. Covers advanced Philosophy research and writing instruction. Encourages students to explore the ethical dimensions of their desired professional or graduate research interests. Involves the creation of a portfolio helpful in applying to graduate school or seeking employment. The portfolio includes the senior research thesis, an abstract of the thesis, three letters of recommendation, a Curriculum Vita, a Personal Statement, and a PowerPoint presentation.
PHIL 492R
Advanced Topics in Philosophy
1 to 3:1 to 3:0  On Sufficient Demand
  * Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing
Examines advanced topics philosophy. Examples include ancient theories of political constitution, continental rationalism, empiricism, personal identity, free will, theories of truth and modal logic. May be repeated for a maximum of 9 credits toward graduation. May be delivered hybrid.

Physical Science (PHSC)

PHSC 1000   PP
Survey of Physical Science
3:3:0  Fall, Spring, Summer
Surveys the exciting world of science and explains the basic scientific laws and models by which the physical universe may be understood. Stresses historical aspects and the impact of physical science on modern society. Draws topics from the fields of physics, chemistry, geology, meteorology and astronomy. Uses lectures, dramatizations, audio-visual presentations, and demonstrations.

PHSC 281R   PP
Cooperative Work Experience
2 to 9:1:5 to 40  On Sufficient Demand
  * Prerequisite(s): Approval of Cooperative Coordinator
Designed for Physical Science majors. Provides paid work experiences in the student's major. Course content is individualized, with students setting objectives in consultation with their faculty coordinator and their on-the-job supervisor. Credit is determined by the number of hours a student works during the semester. May be graded Credit/No Credit.

Physics (PHYS)

PHYS 1010   PP
Elementary Physics
3:3:0  Fall, Spring, Summer
  * Prerequisite(s): MAT 1010
For students interested in a one-semester survey physics course. Covers the fundamentals of classical and modern physics. Includes mechanics, fluids, heat, waves and sound, electricity and magnetism, light, optical, relativity, atomic and nuclear physics. Includes lectures, classroom interaction, demonstration, and problem solving.

PHYS 1700   PP
Descriptive Acoustics
3:3:0  Fall
  * Prerequisite(s): MAT 1010
Introduces the science of sound, music and speech and the physical principles and technology used to manipulate, store and broadcast it.

PHYS 1800   PP
Energy You and the Environment
3:3:0  Spring
Answers the question, "Where does energy come from, and where does it go?" Examines the methods of energy production, distribution, and consumption in society and their environmental impacts. Examines the personal impact of energy use on the environment and explores alternatives, such as fuel cell cars, and a hydrogen economy. Examines prospects for alternative energy sources, such as solar, wind, nuclear and geothermal energy at length. Intended for non-science majors interested in energy use in society.

PHYS 2010   PP
College Physics I
4:4:0  Fall, Spring, Summer
  * Prerequisite(s): MATH 1050
  * Corequisite(s): PHYS 2015
For students desiring a two semester algebra based course in applied physics. Covers mechanics, fluids, waves, heat, and thermodynamics.

PHYS 2025   PP
College Physics II Lab
1:0:2  Fall, Spring, Summer
  * Prerequisite(s): PHYS 2015
  * Corequisite(s): PHYS 2025
Designed to accompany PHYS 2010. Provides firsthand experience with the laws of mechanics, fluids, waves, heat, thermodynamics, and data analysis. Course Lab fee of $15 applies.

PHYS 2220   PP
Physics for Scientists and Engineers II
4:4:1  Fall, Spring, Summer
  * Prerequisite(s): PHYS 2110, MATH 1210
  * Corequisite(s): PHYS 2225

PHYS 2225   PP
Physics for Scientists and Engineers II Lab
1:0:2  Fall, Spring, Summer
Designed to accompany PHYS 2220. Verifies through laboratory experience the laws of electricity and magnetism, electric circuits, and optics. Principles of data collection and analysis are emphasized. Course Lab fee of $15 applies.

PHYS 3010   PP
Physics Experiments for Secondary Education
1:0:3  Fall
  * Prerequisite(s): PHYS 2110, MATH 1050, MATH 1210, PHYS 2220, MATH 1060, and University Advanced Standing
For secondary education students. Emphasizes physics or chemistry. Addresses pedagogical methods for student physics laboratory exercises and demonstrations. Studies currently available commercial laboratory equipment for teaching physics in a lab setting. Includes ideas and methods for building inexpensive demonstrations and lab exercises. Provides training in safe and effective use of lab equipment.

PHYS 3110   PP
Modern Physics for Secondary Education
3:3:0  Fall
  * Prerequisite(s): PHYS 2220, MATH 1210, and University Advanced Standing
Addresses topics of special relativity, development of quantum mechanics, physics of the atom, elementary solid state physics, and elementary particle physics.

PHYS 3115   PP
Modern Physics I
3:3:0
  * Prerequisite(s): PHYS 2220 and University Advanced Standing
  * Corequisite(s): PHYS 3115
Addresses topics of error analysis and statistics, wave mechanics, special relativity, development of quantum mechanics, and atomic physics.
Course Descriptions

PHYS 3115
Introduction to Experimental Physics I
2:1:3 Fall
* Prerequisite(s): PHYS 2220 and University Advanced Standing
* Corequisite(s): PHYS 3110
Introduces selected experiments of classical and modern physics in a laboratory setting. Addresses topics of measurement, error analysis, data analysis, and report writing.

PHYS 3120
Modern Physics II
3:3:0
* Prerequisite(s): PHYS 3110 and University Advanced Standing
* Corequisite(s): PHYS 3125
* Prerequisite(s) or Corequisite(s): PHYS 3300
Covers topics in special and general relativity, and addresses applications of modern quantum mechanics including molecular physics, solid state physics, statistical mechanics, nuclear physics, particle physics, and cosmology.

PHYS 3125
Introduction to Experimental Physics II 2:1:3 Spring
* Prerequisite(s): PHYS 3100, PHYS 3115, and University Advanced Standing
* Prerequisite(s) or Corequisite(s): PHYS 3120
Introduces selected experiments of classical and modern physics in a laboratory setting. Addresses topics of measurement, data analysis, report writing.

PHYS 3230
Principles of Electronics for the Physical Sciences
3:2:3 Fall
* Prerequisite(s): PHYS 2220, MATH 2210, and University Advanced Standing
Introduces electronic measurement instruments commonly used in experimental physics laboratories. Covers principles of electronic measurements using transducers, solid-state devices, circuit analysis, logic circuits, and computers. Includes lab experience.

PHYS 3300
Mathematical Physics
3:3:0 Fall, Spring
* Prerequisite(s): MATH 2210 and University Advanced Standing
* Prerequisite(s) or Corequisite(s): MATH 2280 or instructor consent
Covers the applications of mathematical tools to experimental and theoretical research in the physical sciences. Introduces problems and systems common to physical science that can be modeled by the application of vector and tensor algebra, curvilinear coordinates, linear algebra, complex variables, Fourier series and transforms, differential and integral equations.

PHYS 3350
Applications of LabVIEW in Physics
3:2:2
* Prerequisite(s): PHYS 3230 and University Advanced Standing
Develops programming skills in LabVIEW. Utilizes LabVIEW as the primary interface for analog and digital I/O for applications in physics experiments. Includes a student-directed group project that demonstrates effective use of LabVIEW in hardware interfacing in a physics experiment.

PHYS 3400
Classical Mechanics
3:3:0 Spring
* Prerequisite(s): PHYS 2220 and University Advanced Standing
* Prerequisite(s) or Corequisite(s): PHYS 3300 recommended
Treats classical mechanics of particles and systems using advanced mathematical techniques. Covers conservation principles, Lagrangian dynamics, harmonic oscillators, motion of rigid bodies and non-inertial reference frames.

PHYS 3500
Thermodynamics
3:3:0 Spring
* Prerequisite(s): PHYS 2220, MATH 2210, and University Advanced Standing
Addresses topics of heat, temperature, ideal gases, laws of thermodynamics, entropy, reversibility, thermal properties of solids, phase transitions, thermodynamics of magnetism, and negative temperature.

PHYS 3800 (Cross-listed with: ENVT 3800, CHEM 3800)
Energy use on Earth 3:3:0 Fall
* Prerequisite(s): (PHYS 1010 or PHSC 1000 or CHEM 1010 or GEO 1010 or GEO 2040 or METO 1010) and MATH 1050 and University Advanced Standing
Covers the science of energy production and consumption. Quantitatively analyzes various methods of energy production, distribution, and end use in all sectors of our society, including transportation, residential living, and industry. Examines the impacts of our energy consumption on the environment and prospects for alternative energy sources. Intended for science majors interested in energy use in society or in an energy related career, and for students in other majors who feel that a technical understanding of energy use will help them to understand and mitigate its impact in our society.

PHYS 4100
Biophysics
3:3:1
* Prerequisite(s): (PHYS 3110, PHYS 3115, BIOL 1610, or instructor approval) and University Advanced Standing
Covers the thermodynamics and statistical mechanics of biological systems, the mechanics of biologically important molecules, and the laws of fluid mechanics as applied in biological systems. Uses calculus-based mathematical models to treat specific reactions, particularly those treating biological systems as molecular machines.

PHYS 4150
Medical Physics
3:3:0
* Prerequisite(s): PHYS 3110, PHYS 3115 and University Advanced Standing
Explores the theory and applications of physics to medicine. Covers signal analysis, ultrasound, X-rays, optical, nuclear, and X-ray imaging techniques, nuclear medicine, magnetic resonance imaging, and nanomedicine.

PHYS 4200 (Cross-listed with: BIOL 4200, CHEM 4200, GEO 4200)
Teaching Methods in Science
3:3:0
* Prerequisite(s): Acceptance into secondary education program, senior-level standing, instructor approval, and University Advanced Standing
Examines objectives, instructional methods and curriculum for teaching science in the secondary school. Includes developing, adapting, evaluating, and using strategies and materials for teaching biological and physical sciences. Explores special needs of the learners and characteristics specific to the science discipline.

PHYS 4210
Advanced Experimental Techniques
3:1:4 Fall
* Prerequisite(s): (PHYS 3125, PHYS 3320, or instructor approval) and University Advanced Standing
Introduces fundamental skills required for conducting successful scientific research in a physics laboratory setting. Covers vacuum technology, basic machine shop practice, electronic instrumentation, electron microscopy, scanning probe microscopy, nuclear magnetic resonance, and x-ray diffractometry.

PHYS 425R
Physics for Teachers 1 to 5:1 to 5:0 to 10 Summer
* Prerequisite(s): Department Approval and University Advanced Standing
For licensed teachers or teachers seeking to recertify, an update course in physics and/or basic physics core courses for teachers needing physics or physical science endorsements from the Utah State Office of Education. Teaches principles of physics and pedagogy of teaching physics for teachers in public or private schools. Emphasis will be placed on correlation with the Utah Core Curriculum, the National Science Education Standards, and the Benchmarks of Project 2061. Topics will vary.

PHYS 4300
Computational Physics 3:3:0 Spring
* Prerequisite(s): PHYS 3300 and University Advanced Standing
Covers computational algorithms with specific applications to the description of physical systems. Covers iterative approximation methods, computations using matrices and vectors, numerical integration, solutions of differential equations. Uses a computer programming approach to problem solving.
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>PHYS 4350</td>
<td>Research Methods in Physics</td>
<td>3:1</td>
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<td>* Prerequisite(s): Instructor and Department approval and University Advanced Standing</td>
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<td>PHYS 4410</td>
<td>Electrostatics and Magnetism</td>
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<td>PHYS 4420</td>
<td>Electrodynamics</td>
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<td>Explores the theory of electrostatic phenomena in a mathematically rigorous manner. Covers Gauss’ Law, the Laplace and Poisson equations, boundary-value problems, and dielectrics.</td>
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<td>PHYS 4510</td>
<td>Quantum Mechanics I</td>
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<td>PHYS 4600</td>
<td>Optics</td>
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<td>PHYS 4700</td>
<td>Acoustics</td>
<td>3:3:0</td>
<td>Fall</td>
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<tr>
<td></td>
<td>* Prerequisite(s): PHYS 3110, PHYS 3115, PHYS 3300, and University Advanced Standing</td>
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<tr>
<td></td>
<td>Covers phenomena of sound, resonance, acoustics, and human hearing. Treats associated topics of waves, frequency, vibration and interference using appropriate mathematical tools.</td>
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<tr>
<td>PHYS 4800</td>
<td>Solid State Physics</td>
<td>3:3:0</td>
<td>Spring</td>
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<tr>
<td></td>
<td>* Prerequisite(s): PHYS 3120, 3125, PHYS 4510, and University Advanced Standing</td>
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<td></td>
<td>Explores topics relevant to the structure, behavior, and properties of crystalline materials. Includes a study of lattice vibrations, free electrons, semiconductors, superconductivity, dielectric and ferroelectric materials and magnetism.</td>
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<tr>
<td>PHYS 481R</td>
<td>Physics Internship</td>
<td>1 to 4:0:5 to 20</td>
<td>On Sufficient Demand</td>
<td>* Prerequisite(s): PHYS 2220, Departmental Approval and University Advanced Standing</td>
</tr>
<tr>
<td>PHYS 489R</td>
<td>Undergraduate Research in Physics</td>
<td>1 to 3:0:3 to 9</td>
<td>On Sufficient Demand</td>
<td>* Prerequisite(s): PHYS 2220, Departmental Approval and University Advanced Standing</td>
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<td>Provides supervised, practical, and research experience for students preparing for careers in physics. May be repeated for a maximum of 6 credit hours. May be graded credit/no credit.</td>
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<tr>
<td>PHYS 490R</td>
<td>Seminar</td>
<td>0:5:0:5</td>
<td>Fall, Spring</td>
<td>* Prerequisite(s): University Advanced Standing</td>
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<td></td>
<td>Exposes students to current research topics in physics and related fields. Provides an opportunity for students to attend bi-weekly lectures presented by department faculty and invited speakers. Lectures are usually a summary of the speaker’s recent research results presented at a level appropriate for junior and senior physics majors.</td>
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<tr>
<td>PHYS 495R</td>
<td>Undergraduate Research in Physics</td>
<td>1 to 3:0</td>
<td>On Sufficient Demand</td>
<td>* Prerequisite(s): Instructor approval, Departmental approval, and University Advanced Standing</td>
</tr>
<tr>
<td>PHYS 499A</td>
<td>Senior Project</td>
<td>1:0:3</td>
<td>On Sufficient Demand</td>
<td>* Prerequisite(s): Instructor approval, Departmental approval, and University Advanced Standing</td>
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<tr>
<td></td>
<td>Provides an opportunity for senior physics majors to participate in a current research project supervised by a department faculty member. Includes independent study and/or laboratory work as necessary. Culminates in the preparation of a written paper and oral presentation describing the results of the research project.</td>
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<tr>
<td>PHYS 499B</td>
<td>Senior Thesis</td>
<td>1:0:3</td>
<td>On Sufficient Demand</td>
<td>* Prerequisite(s): Instructor approval, Departmental approval, and University Advanced Standing</td>
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<tr>
<td></td>
<td>Continues PHYS 499A. Provides an opportunity for senior physics majors to present the results of a current research project supervised by a department faculty member. Includes independent study as necessary. Culminates in the preparation of a written paper and oral presentation describing the results of the research project.</td>
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### Peace and Justice Studies (PJST)

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>PJST 3000</td>
<td>Introduction to Peace and Justice Studies</td>
<td>3:3:0</td>
<td>Fall</td>
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<tr>
<td></td>
<td>* Prerequisite(s): PHIL 2050 and University Advanced Standing</td>
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<td>Introduces the student to the important literature, questions, and research programs of peace and justice studies. Explores personal, domestic, national, and international issues. Considers alternative conceptions of violence, war, terrorism, justice/injustice, and peace. Enables the student to become aware of various intellectual and professional disciplines that bear relationships to peace and justice, e.g., history, political theory, international relations, political economy, international law, environmental law, military science, mediation and negotiation.</td>
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</table>
Examines community development through case studies and explores strategies that produce a high quality of life and maximum solutions to meet those needs. Explores policies and research to investigate both political and economic instability and hegemony. Analyzes the causes and reasons for poverty and its intractability. Examines the ways in which local, national, and global factors are part of the nature of poverty. Surveys policies and institutions designed to confront the problem. Interrogates and explicates the ethical issues surrounding poverty and its alleviation.

Analyzes global poverty as a serious and pressing worldwide problem that kills over 33,000 people each day. Intergogates questions of why poverty exists, as well as what is or can be done to diminish or eliminate it. Presents sophisticated and empirically-based information regarding global malnutrition, conflict, migration, lack of employment and healthcare, etc. Uses the most recent research and research methodologies to investigate both the causes of poverty and the most promising solutions. Examines the nature of poverty in diverse societies, techniques for its measurement and accurate measurement, and the causes and reasons for poverty and its intractability. Examines the process of moving from active violent conflict to sustainable peace. Explores the roles of peoples, state organizations, institutions, civil society, culture, religion, states, and multilateral organizations.

Introduces literature about various moral perspectives and religious traditions' teachings about conflict, violence, and peace. Addresses various defense theories and religious traditions' teachings about conflict, violence, and peace. Surveys policies and institutions designed to confront the problem. Interrogates and explicates the ethical issues surrounding poverty and its alleviation.

Introduces literature concerning the ethics of conflict, war, terrorism, and peace. Considers alternative conceptions of these phenomena, as will be alternative approaches and ethical theories in respect to how conflict of various kinds might most effectively and morally be preempted or diminished. Addresses various defense theories and religious traditions’ teachings about conflict, violence, and peace.

Introduces the student, and brings him or her, to some depth in the field of human security. Engages the student in a wide range of interdisciplinary literature because this field of inquiry, discourse, and conception is contested, theoretically rich, and empirically rich. Analyzes matters that threaten human security, for example: hunger and malnutrition; disease; cultural, structural, and direct violence; ecological and environmental degradation; political and economic instability and hegemony. Analyzes the organizations, institutions, movements, and strategies assembled successfully against these threats.

Examines the nature of poverty in diverse societies, techniques for its measurement and accurate measurement, and the causes and reasons for poverty and its intractability. Examines the process of moving from active violent conflict to sustainable peace. Explores the roles of peoples, state organizations, institutions, civil society, culture, religion, states, and multilateral organizations.

Introduces the student to the nature of social class, race, and gender as they relate to issues of war, peace, injustice, and justice. Surveys the nature of social class, race, and gender as they relate to issues of war, peace, injustice, and justice. Surveys the contributions that the perspectives of gender as they relate to issues of war, peace, injustice, and justice. Surveys the contributions that the perspectives of gender, race, and class in Peace and Justice Studies.

Uses empirical data to interrogate and explicate organized death in the form of war, revolution, insurgency, or terrorism as a perennial, and one of the most complicated, problems. Uses empirical data and theory to investigate the means of conflict transformation that have been most successful. Presents a basic understanding of how conflict is transformed from (1) an active status to (2) resolution to (3) peaceful stalemate to (4) sustained peace. Explicates the process of moving from active violent conflict to sustainable peace. Explores the roles of peoples, state organizations, institutions, civil society, culture, religion, states, and multilateral organizations.

Introduces the student to the nature of social class, race, and gender as they relate to issues of war, peace, injustice, and justice. Surveys the contributions that the perspectives of gender, race, and class in Peace and Justice Studies.

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<th>Course Code</th>
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<th>Credits</th>
<th>Terms</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>POLS 1010</td>
<td>Introduction to Political Science</td>
<td>3:3:0</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td></td>
<td>Explores the nature of politics and power. Compares constitutional systems of government with closed totalitarian systems such as the Communist Bloc nations. Examines public opinion, political communications, interest groups, party politics, ideologies, governmental institutions, bureaucracies, and government legal systems. Studies the role of violence and revolution. Emphasizes the influence of these political elements on the average citizens.</td>
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<tr>
<td>POLS 1020</td>
<td>Political Ideologies</td>
<td>3:3:0</td>
<td>Fall, Spring</td>
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<tr>
<td></td>
<td>Surveys the major historical and current political ideologies including liberalism, Marxism, fascism and Islamism.</td>
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<tr>
<td>POLS 1100</td>
<td>American National Government</td>
<td>3:3:0</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td></td>
<td>Studies history and structure of American National Government, rights and responsibilities of citizens, political institutions, political processes, and governmental policies. May be delivered online.</td>
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<tr>
<td>POLS 1440</td>
<td>Introduction to Middle East Politics</td>
<td>3:3:0</td>
<td>Not Offered</td>
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<td></td>
<td>Studies social, historical, political and religious influences affecting the Middle East. Explores forces that motivate policy and decision-making. Examines current issues such as the Arab-Israeli conflict, political Islam, petroleum power and U.S. foreign policy. Presents profiles of selected modern Middle East states and the balance of power in the region.</td>
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<tr>
<td>POLS 1800</td>
<td>Our Global Community</td>
<td>3:3:0</td>
<td>Not Offered</td>
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<td></td>
<td>Examines geography, climate and topography of Western Europe, Asia, Latin America, Pacific Rim, sub-Saharan Africa and Middle/East Islamic regions. Studies the unique social, cultural, economic and political differences and resulting tensions and conflicts. Explores how historical experience affect the expectations and perceptions of selected populations.</td>
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<tr>
<td>POLS 2100</td>
<td>Introduction to International Relations</td>
<td>3:3:0</td>
<td>Fall, Spring</td>
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<td></td>
<td>Discusses logic of power in international relations. Studies idealistic and realistic theories of international relations. Examines reasons why nations go to war. Compares geopolitical thrust and response.</td>
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<tr>
<td>POLS 2150</td>
<td>Model United Nations</td>
<td>3:3:0</td>
<td>Fall, Spring, Summer</td>
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<td></td>
<td>Focuses on the issues, goals and procedures of the United Nations. Incorporates research on political, economic, and social issues of assigned countries in preparation for a simulation of the United Nations. Includes debate on important international political issues accompanied by negotiation and drafting of resolutions to address global problems.</td>
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<tr>
<td>POLS 2200</td>
<td>Introduction to Comparative Politics</td>
<td>3:3:0</td>
<td>Fall, Spring</td>
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<td></td>
<td>Studies comparative politics and looks at attitudes and causes of political problems. Examines methods and means employed by selected countries to solve political problems, and studies successes and failures of different approaches. Examines the means which different nations employ to deal with political problems. Explores the politics, institutions, and governments of seven selected nations.</td>
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<tr>
<td>POLS 2220</td>
<td>Introduction to Chinese Commerce</td>
<td>3:3:0</td>
<td>Fall, Spring</td>
<td>* Prerequisite(s): ENGL 1010</td>
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<td>Surveys the current situation of the Chinese economy, starting with Chinese economic geography and the historical background of economic development in the post-1978 era. Concentrates on economic transition, development strategies, and basic situations of various sectors in the post-reform era, discussed in a comparative framework with the economic transition and development experience of other countries. Discusses some current eye-catching issues associated with economic development and having international impacts, such as international trade and investment transactions, energy competition, and environmental degradation of China.</td>
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<tr>
<td>POLS 2250</td>
<td>Globalization and Sustainable Mountain Development</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
<td>* Prerequisite(s): ENGL 1010</td>
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<td>Considers the issues of sustainable mountain development (SMD) as a part of the globalization process and one of the important priorities of the multilateral agenda of the United Nations. Includes the problems of mountain ecosystems, sources of goods, food, services for mountain populations. Examines special economic development issues in rural, isolated mountain communities in the contexts of recreation and tourism, biological and cultural diversity, and religious significance.</td>
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<tr>
<td>POLS 230G</td>
<td>Introduction to Political Theory</td>
<td>3:3:0</td>
<td>Not Offered</td>
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<td></td>
<td>Surveys major Western political theories, from Athenian democracy to the 21st century welfare state. Analyzes such ideologies as republicanism, liberalism, socialism, and fascism, and considers how these ideas have shaped the ways in which people think and nations act. Explores how global cultures have used and abused these ideas, and how students' own political beliefs fit into the history of political ideologies.</td>
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<tr>
<td>POLS 3000</td>
<td>Political Analysis</td>
<td>3:3:0</td>
<td>Fall, Spring, Summer</td>
<td>* Prerequisite(s): (MATH 1040 or MATH 1050) and POLS 1010 and University Advanced Standing</td>
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<td></td>
<td>Covers the analytical and quantitative methodologies used in political science and public policy research. Includes statistical analysis, database research, and writing exercises.</td>
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<tr>
<td>POLS 3030</td>
<td>State and Local Government</td>
<td>3:3:0</td>
<td>Fall</td>
<td>* Prerequisite(s): University Advanced Standing</td>
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<td></td>
<td>Examines the operation and structure of American State and Local Government with special attention to the Utah experience. Explores the local political process, administrative practices, and intergovernmental relations.</td>
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<tr>
<td>POLS 3100</td>
<td>Survey of International Terrorism</td>
<td>3:3:0</td>
<td>Fall</td>
<td>* Prerequisite(s): University Advanced Standing</td>
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<td></td>
<td>A survey course of political violence and terrorism in the modern world. Studies terrorism and other forms of political violence and how they relate to fundamentalism, such as the Shiite Islamic, and Christian identity movements in the United States and Western Europe. Examines the concept of religious and political terrorism, as well as the ideologies, tactics, and organizations common to most terrorist groups.</td>
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<tr>
<td>POLS 3120</td>
<td>Political Parties</td>
<td>3:3:0</td>
<td>Fall, Spring</td>
<td>* Prerequisite(s): POLS 1100 or instructor approval and University Advanced Standing</td>
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<td>Examines the American political party system with special attention given to the history, structure, functions, and role of American political parties.</td>
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<tr>
<td>POLS 3150</td>
<td>US Presidency</td>
<td>3:3:0</td>
<td>Fall</td>
<td>* Prerequisite(s): ENGL 1010 and University Advanced Standing</td>
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<td>Studies the executive branch of American national government. Examines the basic functions, tenets, and institutions of the federal executive branch. Special attention given to the powers, roles, and structure of the presidency. Analyzes the various complexities of executive politics and policies.</td>
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<tr>
<td>POLS 3180</td>
<td>Public Opinion and Political Behavior</td>
<td>3:3:0</td>
<td>Fall</td>
<td>* Prerequisite(s): University Advanced Standing</td>
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<td></td>
<td>Explores the formation and role of public opinion in politics and its impact on political behavior. Topics covered are: how, and to what extent, individuals form their attitudes about politics; how researchers go about attempting to measure public opinion; the distribution and determinants of public opinion regarding a broad range of political issues; and how political attitudes affect political participation.</td>
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<td>POLS 3200</td>
<td>US Congress</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
<td>* Prerequisite(s): ENGL 1010 and University Advanced Standing</td>
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<td>Examines the legislative branch of American national government. Explores concepts of legislative theory, examining basic structure, functions, powers and roles of Congress. Gives special attention to the legislative process, constitutional structure, and modern development of federal legislature.</td>
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POLS 3210
World Diplomacy
3:0:0 Not Offered
* Prerequisite(s): POLS 2100 and University Advanced Standing
Examines diplomacy as the conduct of relations between sovereign states through the medium of officials based at home or abroad. Explores processes and procedures of the diplomatic art that focuses chiefly on the recent past but is rooted in history. Emphasizes negotiation (the most important function of diplomats), as well as unconventional diplomatic methods.

POLS 3250 (Cross-listed with: LEGL 3250)
Introduction to Law and Politics
3:0:0 Fall, Spring
* Prerequisite(s): (POLS 1010 or POLS 1100) and University Advanced Standing
Examines the relationship between law and politics. Addresses the impact politics have on the judiciary and the strengths and weaknesses of law as a means of social order. Focuses on general issues of legal and political theory and the social and political function of law.

POLS 3300
Introduction to Public Administration
3:0:0 Fall, Spring
* Prerequisite(s): University Advanced Standing
Introduces basic concepts and principles in the implementation of public policy, as opposed to the formation of public policy. Includes concepts such as chain of command, hierarchy, and span of control.

POLS 3400
American Foreign Policy
3:0:0 On Sufficient Demand
* Prerequisite(s): POLS 1100, POLS 2100, and University Advanced Standing
Examines the development and theories of American foreign policy with special emphasis on the twentieth and twenty-first centuries. Surveys the process by which American foreign policy is formulated and examines major events and trends in policy since World War II.

POLS 3500
International Relations of the Middle East
3:0:0 Fall
* Prerequisite(s): (POLS 2100 or instructor approval) and University Advanced Standing
Covers the impact of the West on the Middle East, the Arab-Israeli wars, the rise of Islamic fundamentalist terrorist groups and regimes, the Iran-Iraq war (1980-1988), the Iraq-Kuwait-US war (1990-1991), the impact of 9/11, as well as the foreign policies of several major states in the Middle East.

POLS 356G
Comparative Politics of Central Asia
3:0:0 Fall
* Prerequisite(s): ENGL 1010 and University Advanced Standing
Introduces students to the region of Central Asia with its complex nature and origins of instability. Places regional conflicts in the context of global political developments. Analyzes the historical background of its problems and challenges in combination with studies of its dynamically developing politics.

POLS 359G
American Indian Law and Tribal Government
3:0:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020 or instructor approval) and University Advanced Standing
Surveys American Indian law in treaties, statutes, case law, regulations, and executive orders, and analyzes various policy approaches to the federal trust relationship, tribal sovereignty over internal affairs, civil jurisdiction over tribal lands, management of natural resources of tribal lands, hunting and fishing rights, and cultural preservation. Examines the traditional and modern forms of various Indian tribal governments.

POLS 3600
International Relations of East Asia
3:0:0 Fall
* Prerequisite(s): University Advanced Standing
Studies the emergence, from the nineteenth century, of modern nations from the rich and varied cultures and societies of Pacific Asia. Focuses on China, Japan and Korea. Explores the historical and geographical context of the development of East and Southeast Asia. Examines the transformation between East and West as well as the persistence of tradition. Discusses the political, economic and cultural changes in a region whose economic output rivals that of any other area of the world.

POLS 3610
International Organization
3:0:0 Not Offered
* Prerequisite(s): POLS 2100 and University Advanced Standing
Focuses on the role of international institutions in the modern state system. Analyzes procedures of international cooperation in key issue areas including: the peaceful settlement of disputes and international security, human rights, economic development, and the environment.

POLS 362G
Modern Chinese Political Economy
3:0:0
* Prerequisite(s): University Advanced Standing
Examines the Chinese experience in economic transition and economic development in general and in several domestic sectors, which cross the conventional boundaries between political and economic analysis and through a comparative lens vis-à-vis other transition economies and developing economies. Presents the basic historical and current developments of Chinese economy. Probes the interaction between economic development and political institutions in China, and considers the international effects and implications of Chinese economic development in a critical way.

POLS 3680
International Political Economy
3:0:0 Not Offered
* Prerequisite(s): POLS 2100 and University Advanced Standing
Focuses on the connection between politics and economics in international relations, including an overview of some of the major issues in the area of international political economy, the international trade and financial systems, the role of multinational corporations, economic development, and economic globalization.

POLS 420R
Issues and Topics in Political Science
3:0:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Surveys a specific topic in political science. Topic varies each semester. May be repeated for a maximum of 6 credits toward graduation.

POLS 4500
International Conflict and Security
3:0:0 Not Offered
* Prerequisite(s): POLS 2100 and University Advanced Standing
Focuses on causes and theories of conflict in international relations. Includes traditional and emerging threats to international security, as well as policy responses to them.

POLS 4610
International Law and Relations
3:0:0 Not Offered
* Prerequisite(s): POLS 2100 and University Advanced Standing
Focuses on theories, sources, and foundations of international law. Includes discussion of rights and duties of states, the relationship between international and domestic law, interstate settlement of disputes, and extraterritorial jurisdiction. Explores international law in the areas of human rights, the environment, and the use of force.

POLS 4720
Foundations of American Constitutionalism
3:0:0 Fall
* Prerequisite(s): (POLS 1000 or POLS 1100 or instructor approval) and University Advanced Standing
Examines the political and constitutional foundations of American constitution-making, beginning with the English Charter of Liberties in 1100 ACE and ending with the United States Bill Rights of 1791. Employs a comparative analysis of early Anglo-American constitutional thought, with special attention being given to the writings of prominent 17th century and 18th century constitutional theorists (e.g., Coke, Bacon, Burke, Penn, Dickinson, Mason, Adams, Madison, Marshall).

POLS 4790
US Constitution
3:0:0 Fall, Spring
* Prerequisite(s): (POLS 1100 or POLS 1000) and University Advanced Standing
Examines the United States Constitution as the political blueprint of American national government. Explores the basic constitutional powers and structures of the federal government, and the prominent political and constitutional conflicts between its executive, legislative, and judicial branches. Addresses such key elements of constitutional design as limited and empowered government, enumerated and implied powers, separation of powers, checks and balances, federalism, and the Bill of Rights. Employs a critical analysis of modern constitutional politics.
POLS 480R
Internship
2 to 9:1:5 to 40 Fall, Spring
* Prerequisite(s): PORT 1010 and University Advanced Standing

Provides opportunities for internship experience in political organizations, government offices, and non-governmental organizations. May be repeated for a maximum of 9 credits toward graduation. May be graded Credit/No Credit.

POLS 4850
State Legislative Internship Seminar
3:3:0 Fall, Spring
* Prerequisite(s): University Advanced Standing
* Corequisite(s): ENGL 1010

Prepares students who have been selected to serve as interns to the Utah State Legislature. Focuses on legislative behavior and organization; bill and law making; research and policy; comparative state government and politics and internship requirements.

POLS 490R
Independent Study
1 to 4:1:0 to 4:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Prepares students who have been selected to serve as interns to the Utah State Legislature. Focuses on legislative behavior and organization; bill and law making; research and policy; comparative state government and politics and internship requirements.

POLS 4990
Senior Seminar
3:3:0 Fall, Spring
* Prerequisite(s): POLS 3000, Senior standing in Political Science, and University Advanced Standing

Includes readings and discussions about fundamental political science problems and issues. Offers directed research project tailored to each student's special interests.

**Portuguese (PORT)**

PORT 1010
Beginning Portuguese I
4:4:1 Fall, Spring

For those with no prior Portuguese. Emphasizes listening, speaking, and writing skills along with basic grammar, vocabulary and verb conjugations all within the cultural context of modern Brazil and Portugal. Use eclectic methodology requiring conversational exchanges. Lab access fee of $10 applies.

PORT 1020
Beginning Portuguese II
4:4:1 Fall, Spring

* Prerequisite(s): Students need equivalent knowledge of PORT 1010

Continuation of PORT 1010. Includes remaining first-year grammar and language concepts plus introduction to literature and cultural readings. Uses eclectic method of instruction, emphasizing conversational exchanges. Lab access fee of $10 applies.

PORT 1050
Intensive Portuguese for Spanish Speaker
5:5:1 On Sufficient Demand
* Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050, native speaker, or permission of instructor

Intensive overview of basic Portuguese for Spanish speakers. Practices listening, speaking, reading, and writing skills as well as discusses cultural aspects of Portuguese-speaking societies. Uses an eclectic method of instruction, emphasizing conversational exchange.

PORT 115R
Portuguese Conversation I
1:1:0

* Prerequisite(s): Students need equivalent knowledge of PORT 1020

Offers novice Portuguese speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension for natural conversational flow. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

PORT 2010
Intermediate Portuguese I
4:4:1 Fall

* Prerequisite(s): Students need equivalent knowledge of PORT 1020

Reviews and builds grammar, reading, and conversation skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of Brazil, maintaining a focus on oral proficiency. Lab access fee of $10 applies.

PORT 2010LH
Intermediate Portuguese I
3:3:0 Fall, Spring

* Prerequisite(s): Students need equivalent knowledge of PORT 1020

Reviews and builds grammar, reading, and conversation skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of Brazil, maintaining a focus on oral proficiency. Lab access fee of $10 applies.

PORT 202G
Intermediate Portuguese II
4:4:0 Spring

* Prerequisite(s): Students need equivalent knowledge of PORT 1010

Continuation of PORT 1010. Includes remaining first-year grammar and language concepts, literature and cultural readings. Emphasizes literary readings, conversational exchanges as well as creative writing. Lab access fee of $10 applies.

PORT 2050
Advanced Portuguese
3:3:0 On Sufficient Demand

* Prerequisite(s): PORT 202G, one year residency in Portuguese-speaking country, or instructor approval

For non-native Portuguese speakers with a fairly good mastery of basic Portuguese. Overviews basic Portuguese grammar with special emphasis on major concepts. Overviews Luso-Brazilian literatures and cultures. May be delivered hybrid. Lab access fee of $10 applies.

PORT 215R
Portuguese Conversation II
1:1:0

* Prerequisite(s): Students should have equivalent knowledge of PORT 1020

Offers lower division / novice speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

PORT 3050
Advanced Portuguese
3:3:0 Fall, Spring

* Prerequisite(s): PORT 3050 or equivalent knowledge and University Advanced Standing

For those who plan to pursue a career in international business or related field, learn the business language for Portuguese, or understand Portuguese speaking cultures. Teaches Portuguese business terminology. Presents the role of the Portuguese-speaking countries in a global economy. Explores how students can effectively do business with Brazilian and Portuguese companies within the framework of Lusophone cultures. Includes current materials dealing with today's issues. Taught entirely in the Portuguese language.

PORT 3430
Masterpieces of Brazilian Film
3:2:3

* Prerequisite(s): University Advanced Standing
* Corequisite(s): PORT 3050 recommended

Develops listening comprehension and speaking skills through discussion of Brazilian films. Enhances understanding of Brazilian culture and contemporary society through analysis of cultural and social issues presented in Brazilian cinema. Conducted entirely in Portuguese.
Course Descriptions

PORT 352G
Brazilian Culture and Civilization
3:3:0
* Prerequisite(s): PORT 3050 and University Advanced Standing

Explores a multitude of aspects that construct Brazilian national identity. Completers should acquire an understanding of contemporary issues, and ethnic and economic development of Brazil, as well as historical interdependence with other nations. Presentations and class instructions conducted entirely in Portuguese.

PORT 3610
Brazil through Literature and Film--1500-1900
3:3:0
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): PORT 3050 or equivalent

Examines the literary and filmic construction of Brazil 1500-1900. Requires students to reflect on the philosophial, social, and aesthetics issues that shaped Colonial and Old Republic Brazil. Conducted entirely in Portuguese, presentations and class instruction included.

PORT 3620
Modern Brazil through Literature/Music/Film--1900-1945
3:3:0
* Prerequisite(s): University Advanced Standing.
* Prerequisite(s) or Corequisite(s): PORT 3050 recommended

Examines the literary, musical and filmic construction of Brazil in the beginning of the 20th century. Reflects on the aesthetics, social, and philosophical issues that shaped Brazil. Conducted entirely in Portuguese.

PORT 3630
Post-Modern Brazil through Literature/Music/Film--1945-today
3:3:0
* Prerequisite(s): University Advanced Standing.
* Prerequisite(s) or Corequisite(s): PORT 3050 or equivalent

Examines the literary, musical and filmic construction of Brazil at the end of the 20th century. Reflects on the philosophical, social, and aesthetics issues that shaped Brazil. Conducted entirely in Portuguese.

PORT 490R
Special Topics in Brazilian Studies
3:3:0
* Prerequisite(s): University Advanced Standing.
* Prerequisite(s) or Corequisite(s): PORT 3050

Engages students in critical analysis of discourse in Brazil. Develops language skills required to such analysis and specific to the topic. Possible topics include Brazilian Film, Brazilian Music, Lusophone Literature, Women’s Texts, Advanced Business Portuguese. Conducted entirely in Portuguese. May be repeated for up to nine credit hours towards graduation.

PSY 1010 SS
General Psychology
3:3:0 Fall, Spring, Summer

An introductory course in modern scientific psychology. Covers major domains of scientific psychology including biological foundations, sensations, perception, learning, motivation, human development and abnormal psychology. Examines major psychological and professional applications. May be delivered hybrid and/or online.

PSY 101H SS
General Psychology
3:3:0 Fall

Covers major domains of scientific psychology including biological foundations, sensation and perception, learning, motivation, human development, and abnormal psychology. Examines major psychological and professional applications. Students will be expected to write at least two papers and work collaboratively.

PSY 1100 SS
Human Development Life Span
3:3:0 Fall, Spring, Summer

Examines the development from conception and birth to old age and death. Examines growth and developmental patterns and describes the characteristics of various developmental stages. Studies the major physical, cognitive and psychosocial themes and issues of human development. Includes genetics, prenatal development, birth, early/middle/late childhood, adolescence, early/ middle/late adulthood, and death. May be delivered hybrid and/or online.

PSY 2250
Psychology of Interpersonal Relationships
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 1010 and PSY 1010

For Behavioral Science majors only. Integrates cognitive psychological theory in an experiential setting to build personal communication skills. Helps students better understand their interactions with others. Teaches practical skills used in personal, professional, and social relationships. Studies problem-solving models and conflict resolution methods. Course fee of $12 for materials applies.

PSY 2400
Positive Psychology
3:3:0 Fall, Spring, Summer
* Prerequisite(s): PSY 1010 and ENGL 1010

Provides an overview of the scientific study of human strengths and virtues. Examines topics such as happiness, optimism, gratitude, altruism, forgiveness, human strengths, optimal performance, and personal fulfillment. Knowledge gains are reinforced with personalized experiential learning activities.

PSY 2710
Introduction to Brain and Behavior
3:3:0

* Prerequisite(s): PSY 1010 and ENGL 1010 with a C+ or higher. ZOOL 1090 recommended.

Introduces neuroanatomy and neurophysiology. Includes how neurons communicate to coordinate various functions and behaviors. Addresses research methods used to study the brain and the mechanisms to control functions and behaviors.

PSY 275R
Survey of Current Topics
1 to 3:1 to 3:0 On Sufficient Demand
* Prerequisite(s): [ANTH 101G or PSY 1010 or SOC 1010] and ENGL 1010 with a C+ grade or higher.

Presents selected topic in Psychology and will vary each semester. Approaches subjects from cross-disciplinary perspective. Requires a project demonstrating competency in the specific topic. May be repeated for nine credits toward graduation.

PSY 2800 (Cross-listed with: HLTH 2800)
Human Sexuality
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 1010

Interdisciplinary course in human sexuality, exploring topics in biology, health, psychology, and sociology. Introduces basic concepts of human sexuality including anatomy, reproduction, and sexual response across the life-cycle. Studies gender roles, sexual orientation, dysfunction, and sexually transmitted disease. Examines sexual behavior from the perspective of ethics, religion, the law and education. Students assess their sexual attitudes and should be able to make responsible sexuality decisions. An elective psychology course for students pursuing a degree in Behavioral Science. Note: Due to Utah State Laws regarding sexuality education, students registering for PSY 2800 must be 18 years of age or a high school graduate.

PSY 3100
Psychology of Gender
3:3:0 Fall, Spring, Summer
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

For Behavioral Science majors and others interested in gender issues from a psychological perspective. Examines the topic of gender behaviors and attitudes that relate to (but are not entirely congruent with) biological sex. Discusses biological influences on gender, gender differences, gender development, and the influence of gender on various dimensions of daily life.

PSY 3200
Infancy and Childhood Development
3:3:0 Fall, Spring, Summer
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Teaches major theories of infant and child development. Identifies the sequence of development including physical, mental, and emotional conditions. Studies special needs and exceptional children. Examines parenting styles. Emphasizes development of the ‘whole child’.

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PSY 3210
Adolescent Development
3:3:0 Fall, Spring, Summer
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020) and University Advanced Standing
Focuses on physical, social, mental and emotional development of adolescents. Examines current research regarding optimal conditions for healthy maturation and separation/individualization from parents. Addresses adjustment problems, prevention, and remedies.

PSY 3220
Adult Development
3:3:0 Fall, Spring
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020) and University Advanced Standing
Studies adult developmental stages (end of adolescence through old age). Examines stable patterns and predictable changes in physiological and psychological and cognitive processes, emphasizing current research in optimal adult functioning.

PSY 3400
Abnormal Psychology
3:3:0 Fall, Spring, Summer
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing
Foundation course for psychology majors. Examines the psychology of abnormal behavior, historical explanations and current biological and psychological theories of abnormal behavior. Emphasizes the description of mental disorders according to the American Psychiatric Association Diagnostic and Statistical Manual (DSM IV-R). May be delivered online.

PSY 3420
Cognitive Psychology
3:3:0 Spring, Summer
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ or higher) and University Advanced Standing
Introduces students to the core concepts, theoretical perspectives, empirical findings, and historical trends in cognitive psychology. Includes classical and operant conditioning, modal model of memory, and higher cognitive processes. Explores animal as well as human research.

PSY 3430
Psychopharmacology
3:3:0 Spring
* Prerequisite(s): PSY 2710 or (ZOOL 2320 and ZOOL 2420) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher); University Advanced Standing
Addresses basic principles of nervous system function with emphasis on communication between nerve cells. Focuses on therapeutic drugs as well as drugs of abuse to include mechanisms of action and behavioral effects. May be delivered online.

PSY 3450
Physiological Psychology
3:3:0 Fall
* Prerequisite(s): PSY 2710 or (ZOOL 2320 and ZOOL 2420) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher); University Advanced Standing
Addresses basic principles of nervous system function with emphasis on communication between nerve cells. Focuses on therapeutic drugs as well as drugs of abuse to include mechanisms of action and behavioral effects. May be delivered online.

PSY 3460
Personality Theory
3:3:0 Fall, Spring, Summer
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing
Introduces the basic psychological theories attempting to answer the question ‘What is Personality?’ Examines the scientific study of the uniqueness of each of us as individuals. Explores how individuals develop personality similarities as well as differences by examining classical personality theories, societal influences, cultural variations, behavioral genetics, anatomy and biochemistry, sex and gender differences and family function. May be delivered hybrid and/or online. Course fee of $15 for materials.

PSY 3480
Principles of Learning
3:3:1 Spring
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ or higher) and University Advanced Standing
Examines major concepts, theoretical perspectives, empirical findings, and historical trends in the scientific study of behavior. Focuses on application of psychological principles to personal, social, and organizational issues, as appropriate. Stresses use of critical and creative thinking, skeptical inquiry, and the scientific approach to solve problems related to behavior.

PSY 3490
Sensation and Perception
4:4:0 Spring
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing
Provides a foundation in how sensory systems interpret the world around us. Explores each of the primary sensory systems by defining the physical energy that is detected. Examines how that energy is transduced into neural impulses, and samples how aspects of that information are encoded to provide a representation of our world. Takes a neuroscientific approach to the topic, beginning with an overview of the nervous system including the organization of the brain and spinal cord, how neurons work and how neurons communicate with each other.

PSY 3500
Social Psychology
3:3:0 Fall, Spring, Summer
* Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ or higher) and University Advanced Standing
Studies the ways in which social context influences behavior. Reviews both social and psychological research. Includes culture and personality theory. Presents a multi-disciplinary approach to understanding human behavior. Requires a research project to observe and report individual or group behavior in a real life setting. May be delivered hybrid.

PSY 3510
Psychology Applied to Modern Life
3:3:0
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ or higher) and University Advanced Standing
Examines knowledge about key concepts and findings from the science of psychology. Applies effective strategies, grounded in psychology, to their own lives in areas that will help them to be healthier and happier. Key topic areas include: stress, social influences and interpersonal communication, relationships and life transitions, and mental and physical health.

PSY 3710
Introduction to Forensic Psychology
3:3:0 Spring
* Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ or higher) and (PSY 3400 or PSY 3500 with a C- or higher) and University Advanced Standing
Introduces the complex field of forensic psychology which involves the overlap between the science of psychology and the law. Builds a basic understanding of the psychological principles and concepts that are part of the legal system. Highlights how the science of psychology potentially contributes to improvements and changes in the legal system. Outlines the role of forensic psychologists with regard to the legal system. Ideas regarding potential careers in the field are emphasized. Provides students the opportunity to customize course activities to suit their learning needs and styles from a variety of choices.

PSY 3830
Peace Psychology
3:3:0
On Sufficient Demand
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing
Explores direct and structural violence, peace making, and peace building. Emphasizes concepts and psychological processes that are sources of structural and cultural violence and peaceful transformation. Examines ways of reducing social, racial, gender, economic, and ecological injustices and well as the kinds of thoughts, feelings, and actions of individuals and groups that promote socially just arrangements. Explores methods of building and sustaining peaceful relationships.
Course Descriptions

PSY 3840  Psychology of War and Peace  
3:3:0  
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing  
Introduces psychological foundations of war, peace and transformational peace-building. Considers the unique and overlapping experience of leaders, civilians, and combatants. Examines theoretical contributions of individual and group dynamics. Explores how war and peace affect the human psyche. Discusses who benefits from war and the forgiveness and reconciliation process.

PSY 3850  Psychology of Good and Evil  
3:3:0  On Sufficient Demand  
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing  
Provides an integrated approach to understanding the roots of good and evil in human behavior. Explores theories and studies of human caring and destructiveness. Analyzes and develops psychological explanation of why individuals choose different courses of action under similar circumstances. Explores such concepts as attachment and parental discipline, bystander phenomena, response to authority, genocide, killing during war, group identity, bullying, views of the other and racism, forgiveness and reconciliation, and psychopathology and the biology of emotion.

PSY 4010  Experimental Psychology  
3:3:0  Fall, Spring, Summer  
* Prerequisite(s): ENGL 2010 or ENGL 2020 with a C+ grade or higher, BESC 3010, BESC 3020, and University Advanced Standing  
Explores various experimental research designs (true experimental and quasi-experimental), emphasizing application and evaluation. Requires conducting an original psychological experimental research project.

PSY 4150  Tests and Measurements  
3:3:0  Fall, Spring  
* Prerequisite(s): ENGL 2010 or ENGL 2020 with a C+ grade or higher, BESC 3010, and University Advanced Standing  
Introduces the history of psychological tests, examines tests in use at the present time and considers the appropriate roles of psychological testing in modern society. Studies individual and group assessment in the areas of intelligence, aptitude, achievement, personality and interest. Critically evaluates tests and other instruments of measurement for validity and reliability.

PSY 4300  Introduction to Counseling and Psychotherapy  
3:3:0  Fall, Spring, Summer  
* Prerequisite(s): PSY 1010 or SW 1010 and PSY 3400 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing  
Surveys concepts and practices of major therapeutic systems. Discusses models to major psychotherapeutic models. Addresses basic counseling issues including ethics and professionalism. Develops skills in relationship development, interviewing, initial assessment and intake procedures. May be delivered online.

PSY 4400  Introduction to Group Psychotherapy  
3:3:0  
* Prerequisite(s): PSY 1010, PSY 3400, (ENGL 2010 or ENGL 2020 with a C+ or higher), and University Advanced Standing  
Discusses group therapy theory, research applied to client assessment and outcomes, legal and ethical issues. Learning activities will include screening, assessment, treatment, evaluation, and termination of group members. May be delivered online.

PSY 4461  (Cross-listed with: PHIL 4461)  
Moral Psychology  
3:3:0  
* Prerequisite(s): PHIL 2050 or PHIL 205G or PHIL 205H or PSY 1010 or PSY 101H and University Advanced Standing  
Analyzes questions about how people engage in moral thinking and in moral behavior from the perspectives of the philosophy of mind, ethics and psychology. Explores topics such as virtue and character, reason and passion, altruism and egoism, agency and responsibility, and moral intuitions.

PSY 4500  History and Systems of Psychology  
3:3:0  
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing  
Identifies key contributors, historical systems and theories within the field of psychology. Includes contributions to present knowledge of affect, behavior, and cognition. Stresses similarities and differences between theories. Especially for students planning to take the Advanced Psychology Subject Test portion of the GRE.

PSY 4510  Academic and Career Advising  
3:3:0  
* Prerequisite(s): ENGL 2010 or ENGL 2020) and University Advanced Standing  
Provides students with an understanding of the field of academic/career advising and what it means to be a scholar and practitioner within the field. Engages in scholarly study of academic advising literature, discussion of advising theory and practice, observation of academic advising sessions, and interviews with advisors. Provides knowledge of advising theory and practice, an understanding of student development theory, and an increase in the knowledge and skills needed to advise students effectively.

PSY 475R  Current Topics in Psychology  
1 to 3:1 to 3:0  On Sufficient Demand  
* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing  
Presents selected topic in Psychology and will vary each semester. Requires a project demonstrating competency in the specific topic. May be repeated with different topics for 9 credits toward graduation. May be delivered hybrid and/or online.

PSY 490R  Independent Studies  
1 to 3:1 to 3:0  On Sufficient Demand  
* Prerequisite(s): Instructor approval, department chair approval, and University Advanced Standing; for Behavioral Science Bachelor Degree students only  
For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, oral presentation, or other options as approved by instructor. May be repeated for a maximum of 6 credits.

Physical Education Recreation (REC)

REC 1350  Scuba Diving I  
1:0.5:1.5  Fall, Spring, Summer  
* Prerequisite(s): Must be able to swim 100 yards  
Teaches basic scuba diving techniques, scuba safety and use of scuba equipment in an indoor swimming pool. Satisfies requirement for Open Water Certification. Uses the Professional Association for Diving Instructions manual. Course fee of $120 for support, equipment applies.

REC 1351  Scuba Diving II  
1:0.5:1.5  Fall, Spring  
* Prerequisite(s): REC 1350 or instructor approval  
Provides advanced knowledge of scuba techniques. Teaches skills beyond that of the Open Water Course. Teaches natural navigating, compass navigating, light salvage, deep diving, and night diving. Reviews physics laws pertaining to diving and safety procedures. Uses advanced equipment such as compasses and air lift bags. Stresses safety. Uses materials provided by PADI. Taught on block only. Course fee of $120 for support, equipment applies.

REC 1500  Canoeing I  
1:0.5:1.5  Fall, Summer  
Teaches basic canoeing techniques including safety, technical information, equipment, paddling skills, and canoe maneuvering. Requires overnight camping. Requires the ability to swim 100 yards without stopping on the first day of class. Course fee of $147 for transportation, equipment applies.
**Course Descriptions**

**REC 1501**
**Canoeing II**
1:0.5:1.5 Not Offered

*Prerequisite(s): REC 1500 or Instructor Permission*

Prepares students to qualify to become instructors who will teach on water up to and including Class I on the International Scale of River Difficulty. Prepares students to teach the American Canoe Association’s Intro to Canoe course on flat water, and the Basic River Canoe course in a river environment and to teach students fundamental river paddling skills including boat handling, paddling technique, identifying hazards, river reading and self-rescues in moving water.

**REC 1505**
**Whitewater Kayaking I**
1:0.5:1.5 Fall, Summer

Teaches basic kayaking skills to the beginning kayaker. Includes roll techniques, paddle strokes, eddy turns, ferrying, river hazards, and rescue techniques. Requires the ability to swim 100 yards without stopping first day of class. Course fee of $150 applies for transportation, equipment applies.

**REC 1506**
**Whitewater Kayaking II**
1:0.5:1.5 Not Offered

*Prerequisite(s): REC 1505*

Builds on whitewater skills initially taught in Whitewater Kayaking I. Develops the skills and knowledge to assist in instruction and river rescue. Prepares students to help others learn to kayak, preparing them for ACA whitewater certification.

**REC 1512**
**Fly Tying I**
1:0.5:1.5 Not Offered

For students interested in learning or perfecting fly tying skills. Discusses and demonstrates necessary fly tying tools, materials, and knots. Introduces aquatic entomology. Studies various fly types including wet fly, dry fly, nymph, and streamer. Includes hands-on experience. Course fee of $10 for materials applies.

**REC 1513**
**Fly Casting I**
1:0.5:1.5 Fall, Spring, Summer

For students interested in learning or perfecting fly casting skills. Studies types and classification of fly rods and reels. Teaches the physics of casting and casting techniques. Includes hands-on experience. Course fee of $10 applies for materials, equipment applies.

**REC 1516**
**Ropes Course and Teambuilding**
1:0.5:1.5 Not Offered

Provides participants with the opportunity to participate in a group and personal development process which utilizes the ropes course as an educational tool. Consists of 3 phases. Phase I - game and exercises designed to help participants get to know and feel at ease with each other. Phase II - group initiative games/problem solving activities which develop group communication skill, cooperation, and problem solving ability. Phase III - Ropes Course activities/individual challenge which allows class members to test their physical capabilities and individual limits. Course fee of $80 for transportation, equipment, and support.

**REC 1521**
**Indoor Rock Climbing I**
1:0.5:1.5 Fall, Spring

Teaches basic rock climbing skills to the beginning indoor rock climber. Includes knot tying, belaying, rappelling, fixed anchors, beginning indoor climbing, and rescue techniques. Prepares student for enjoyment of indoor climbing facilities, and introduces concepts related to sport climbing. Course fee of $90 for support, equipment applies.

**REC 1522**
**Indoor Rock Climbing II**
1:0.5:1.5 Fall, Spring

*Prerequisite(s): REC 1521*

Builds on skills and experiences gained in Indoor Rock Climbing I. Focuses on lead climbing in the indoor sport context with emphasis on higher skill development, onsite red point techniques. Course fee of $90 applies for support, equipment applies.

**REC 1525**
**Mountaineering**
1:0.5:1.5 Summer

*Prerequisite(s): REC 1535, REC 1527*

Covers mountaineering subjects including hiking, rock climbing, mountain camping, and mountain survival. Requires good health and fair physical condition in order to enjoy the class. Provides technical climbing and safety equipment. Students provide camping equipment (this may be rented at a low cost at the Outpost on campus), boots or shoes, clothing and leather gloves suitable for hiking and climbing. Taught on block only. Course fee of $70 for transportation, materials, and equipment applies.

**REC 1527**
**Rock Climbing I**
1:0.5:1.5 Fall, Spring, Summer

*Prerequisite(s): REC 1527 or Instructor Approval*

Teaches basic rock climbing skills to the beginning rock climber. Includes knot tying, belaying, rappelling, top-rope anchors and site management, beginning lead climbing, and rescue techniques. Course fee of $20 for equipment applies.

**REC 1528**
**Rock Climbing II**
1:0.5:1.5 Fall

*Prerequisite(s): REC 1527 or Instructor Approval*

Teaches intermediate rock climbing skills. Includes placing passive and active anchors on simulated lead climbs, multi-pitch belaying and rappelling. Teaches self- and partner-rescuing, ascending, route finding, crack and face climbing techniques, rock shoe resoling, and an introduction to aid climbing. Course fee of $90 for transportation, equipment applies.

**REC 1529**
**Rock Climbing III**
2:2:0 Not Offered

*Prerequisite(s): REC 1528 or instructor approval*

Teaches advanced rock climbing skills. Includes stretching and injury prevention, advanced training techniques, advanced rescuing, advanced crack, face, and roof climbing techniques. Teaches placing passive and active protection on difficult (5.9-5.11) simulated lead climbs, advanced rescuing; advanced aid climbing on simulated leads, marginal protection and expansion bolt drilling and placement, stretching and injury prevention, and advanced training techniques.

**REC 1530**
**Primitive Survival Skills**
1:0.5:1.5 Not Offered

Focuses on primitive skills and how they can help increase chances of survival. Covers basic survival, fire building, shelters, stone-tool replication, edible plant identification, geographic implications, weather prediction, historic importance of survival, timeline of lost survival techniques, Leave No Trace principles. Course fee of $88 for transportation, equipment, and support applies.

**REC 1535**
**Backpacking**
1:0.5:1.5 Fall, Spring, Summer

*Prerequisite(s): Ability to carry a 40 lbs pack for 15-25 miles*

Covers the basic aspects of back packing, camping, and wilderness travel. Includes labs, lectures, demonstration, audio-visual and extended field trips. Teaches basic components of backpacking and lifelong values of outdoor recreation. Requires multi-night backpacking trip. Course fee of $88 for transportation, equipment, and support applies.

**REC 1542**
**Wilderness First Responder**
2:2:0 Summer

Teaches advanced emergency care specific to situations encountered in a wilderness context. Prepares students for certification exam in Wilderness First Responder (WFR) or Wilderness Emergency Medical Technician Module (WEMT). Experiential Learning Credit must be from a WFR course with at least 72 hrs of contact time.

**REC 1550**
**Mountain Biking**
1:0.5:1.5 Fall, Spring, Summer

*Prerequisite(s): Must have an appropriate Mountain Bike as determined by instructor.*

Provides the students with knowledge of cycling techniques when traveling off the pavement. Teaches bicycle maintenance and tuning. Includes several off-road rides. Stresses the enjoyment and lifetime benefits of mountain biking riding. Taught on block only. Course fee of $60 for transportation, equipment applies.

**REC 1580**
**Kayak Touring**
1:0.5:1.5 Fall, Summer

*Prerequisite(s): Must be able to swim 100 yards without stopping*

Introductory course which teaches basic skills necessary to safely enjoy flat water (non-tidal) kayak touring. Teaches equipment selection, strokes, safety and rescue techniques. Field trip required for course completion. Course fee of $150 for transportation, equipment applies.

**REC 1600**
**Winter Exploration**
1:0.5:1.5 Spring

*Prerequisite(s): REC 1535*

Teaches basics of snowshoeing, cross-country skiing, and winter camping, including Leave No Trace, cooking, staying warm, and building shelters. Covers risks and hazards of the winter environment. Requires overnight camping. $45 course fee for equipment applies.
REC 1605  
Skiing I  
1:0.5:1.5  
Spring  
For the beginning skier. Covers basic skiing concepts including straight runs, stops, turns, traverses, and beginning parallel. Includes demonstration and participation. Grading is based on attendance. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVU and Sundance instructors. Students are required to have own equipment and purchase a half-day pass each ski day.

REC 1606  
Skiing II  
1:0.5:1.5  
Spring  
For the intermediate skier. Designed for those with basic ski skills and who would like to improve their skiing technique. Instruction is given in parallel skiing over bumps and flat terrain, hockey stops, moguls and traversing steep terrain. Uses demonstration and participation. Grading is based on attendance. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVU and Sundance instructors. Students are required to have own equipment and purchase a half-day pass each ski day.

REC 1607  
Skiing III  
1:0.5:1.5  
Not Offered  
For the advanced skier. Covers skiing on all types of terrain and conditions. Includes racing, powder, moguls, trick skiing and touring. Uses demonstration and participation. Grading is based on attendance. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVU and Sundance instructors. Students are required to have own equipment and purchase a half-day pass each ski day.

REC 1615  
Snowboarding  
1:0.5:1.5  
Spring  
Provides a fun challenge to snow boarders of every ability level, starting with the beginning novice to the advanced boarder. Gives instruction in straight runs, stops, turns (falling leaf, heel edge, toe edge), and carving. Includes skill demonstration and student participation. Grading is based on attendance, participation, demonstrating skills, and tests. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVU and Sundance instructors. Requires students to have their own equipment and purchase a half-day pass each ski day.

REC 1621  
Ski Instructor Training  
1:0.5:1.5  
Not Offered  
For advanced skiers who are interested in becoming ski instructors. Discusses the potential in the skiing industry and professionalism as a ski instructor. Introduces American Teaching System. Presents the methodology of ski instruction to intermediate and beginning skiers. Includes lecture and actual ski time on the hill (transportation is not provided). Students are required to have their own equipment and purchase a half-day pass each ski day at a reduced rate.

REC 1625  
Cross Country Skiing  
1:0.5:1.5  
Not Offered  
Prepares basic ski touring techniques. Studies selection and utilization of winter touring equipment and clothing in relation to varying climatic and terrain conditions. Includes trail etiquette, avalanche avoidance, and other important factors for a successful winter tour. Includes classroom instruction and ski touring. Taught on block only.

REC 2010  
Avalanche Awareness  
1:0.5:1.5  
Spring  
Examines the relationship of people in the backcountry and their cause/effect relationship with ever-changing snow conditions. Prepares students to safely and effectively venture into the winter backcountry. Course fee of $53 for equipment applies.

REC 2200  
Foundations of Recreation  
3:3:0  
Fall, Spring  
* Prerequisite(s) or Corequisite(s): ENGL 1010  
Introduces the study of Recreation. Studies the history and philosophy of the field of Recreation. Analyzes problems in areas covered under the umbrella of Recreation. Explores the Recreation sub-disciplines and related career and employment opportunities in this area.

REC 2400  
Principles of Experiential Education in Recreation  
3:3:0  
Fall, Spring  
* Prerequisite(s) or Corequisite(s): ENGL 2200, ENGL 1010  
* Prerequisite(s) or Corequisite(s): ENGL 2010 or ENGL 2020, MATH 1000 or higher  
Introduces the principles and concepts of experiential education in the general context of recreation programming and prepares students for further study and skill development in context specific experiential education programming. Teaches history, theory, and ethics in the domain. Offers experience in the use of learning cycles, facilitation, feedback, processing, and effective communication techniques, risk management from both physical and emotional perspectives. Uses pedagogical lecture methods and experiential learning. Requires participation in experiential education programming and observation and participation in programs outside of class time.

REC 2450  
Rock Climbing Site Management and Facilitation  
3:3:0  
Not Offered  
* Prerequisite(s): REC 1527, REC 2400  
Teaches top-roping site management and facilitation for instructing student rock climbers. Includes lecture methods and experiential learning, industry standard presentations and critiques of knot tying, belaying, rappelling, top-roping anchors, beginning lead climbing, and rescue techniques, presentations and critiques of placing passive and active anchors on simulated lead climbs and multi-pitch belaying. Teaches self and partner rescuing, ascending, route finding, crack and face climbing techniques, aid climbing, and soft skills to facilitate a positive and safe student experience. Features a trip to a regional climbing location and indoor climbing assignments outside of class. Prepares students to seek professional certification.

REC 2500  
Introduction to Adventure Recreation  
2:2:0  
Not Offered  
Explores the philosophy, meaning and value of outdoor adventure recreation. Studies planning, organizing and leading outdoor excursions. Includes hiking, canoeing, camping, scuba diving, cross-country skiing, snowshoeing, compass navigation, outdoor cooking, archery, golfing, etc. Course fee of $80 for transportation, equipment applies.

REC 2600  
Principles of Outdoor and Adventure Education  
3:3:0  
Fall  
* Prerequisite(s): REC 1535 and REC 2400  
Teaches leadership of outdoor and adventure education topics necessary for instructing the beginning student. Uses pedagogical lecture methods and experiential learning. Includes industry standard presentations and critiques of orienteering, map reading, packing, backcountry cooking, campsite set-up, food rationing, river crossing, proper clothing, water purification, hygiene, weather forecasting, backcountry travel, Leave NO Trace ethics, and personal risk management. Requires hiking or orienteering assignments outside of class. Prepares students to qualify for certification as Wilderness Stewards through the Wilderness Education Association. Addresses risk management from both physical and emotional perspectives. Uses pedagogical lecture methods and experiential learning. Requires observation and participation in programs outside of class time.

REC 2650  
Principles of Challenge Education  
3:3:0  
Not Offered  
* Prerequisite(s): REC 1516, REC 2400  
Prepares students for employment in the challenge education and experientially-based training and development sectors. Teaches students functional aspects of challenge education, facility design and use, program design for specific populations, facilitation and processing; as well as, assessment and evaluation of programs. Addresses risk management from both physical and emotional perspectives. Utilizes pedagogical lecture methods, experiential learning, and participation in challenge education programming. Requires observation and participation in programs outside of class time. Course fee of $95 for transportation, support applies.

REC 2700  
Leave No Trace Trainer  
3:3:0  
Fall, Spring  
* Prerequisite(s): REC 1535  
Designed to train environmental leaders and interpreters in the delivery of Leave No Trace (LNT) principles and practices. Emphasizes the skills and ethics necessary for low impacts on the environment. Course fee of $20 for equipment, materials applies.
REC 2750 Principles of Water-Based Adventure Education
3:3:0 Not Offered
* Prerequisite(s): REC 2400, Swim equivalency test
Develops the principles and concepts of experiential education in the water-based context and prepares students for further study and skill development in context specific experiential education programming. Teaches history, theory, and ethics in the domain; as well as, develops experience in the use of learning cycles, facilitation, feedback, processing and effective communication techniques. Includes industry standard presentations and critiques of water safety, hydrology, paddling and stroke technique, self and group rescue techniques, decision-making and judgment, program planning, weather, leave no trace, personal risk management, and equipment care and maintenance. Addresses risk management from both physical and emotional perspectives. Utilizes pedagogical lecture methods and experiential learning, and participation in experiential education programming. Requires observation and participation in programs outside of class time. Prepares students to seek professional certification.

REC 3100 Recreation Program Planning
3:3:0 Spring
* Prerequisite(s): (REC 2200 or instructor approval) and University Advanced Standing
* Prerequisite(s) or Corequisite(s): MATH 1000 or higher
Investigates program planning and development in outdoor programs, camps, agencies, and education organizations. Emphasizes writing of technical program plans that state goals, program organization, curriculum, budgets, marketing, and evaluation.

REC 3200 Inclusive Recreation
3:3:0 Fall
* Prerequisite(s): REC 2400, REC 3100, and University Advanced Standing
Recreation service delivery for individuals with disabilities and other under-represented groups. Presents solutions to full recreation participation for individuals with physical, sensory, emotional and/or intellectual impairments. Incorporates hands on experience working with diverse populations. Course fee of $23 for transportation applies.

REC 3300 Wilderness Skills
1:0:5:1.5 Fall, Spring
* Prerequisite(s): REC 1535 and University Advanced Standing
* Prerequisite(s) or Corequisite(s): REC 2200
Teaches tools and skills needed for surviving in the wilderness. Includes orienteering, map reading, packing, backcountry cooking, campsite set-up, food rationing, river crossing, proper clothing, water purification, hygiene, weather forecasting, backcountry travel, Leave NO Trace ethics, and personal risk management. Course fee of $88 for transportation, equipment, and support applies.

REC 3400 Risk Management
3:3:0 Spring
* Prerequisite(s): REC 2200 and University Advanced Standing
* Prerequisite(s) or Corequisite(s): MAT 1010
Studies outdoor recreation risk management. Focuses on applying models of risk management, negligence, torts, risk management planning, and outdoor recreation safety.

REC 3500 Recreation Administration
3:3:0 Fall
* Prerequisite(s): REC 3100 and University Advanced Standing
Analyzes the internal organization of a recreation department dealing with finances and accounting, records and reports, publicity and public relations, state and federal legislation, staff organization, coordination of community resources.

REC 3700 Natural Resource Interpretation
3:3:0 Fall
* Prerequisite(s): REC 2400 and University Advanced Standing
Investigates theories, principles, and techniques of interpreting park, cultural, and natural resources to the public. Emphasizes techniques for providing interpretive programs developed for natural resources. Course fee of $37 for materials, support applies.

REC 385G Ethical Concerns in Recreation
3:3:0 Spring
* Prerequisite(s): REC 2400, PHIL 2050, and University Advanced Standing
Examines the complex and controversial world of ethics as it pertains to the fields of outdoor recreation and natural resource management. Examines these fields from numerous perspectives; anthropocentric, biocentric and ecocentric, and theocentric.

REC 4000 Outdoor Leadership
4:3:2 Spring
* Prerequisite(s): REC 1535, REC 3300, REC 2600, REC 1542, and University Advanced Standing
Examines principles and practices of leadership in outdoor recreation programs. Focuses on the examination of theories, practices, and problems of leadership in an adventure environment. Provides hand-on experiences with students required to plan and be in a leadership position. Requires 30 hours of volunteer work experience. Course fee of $183 for transportation, equipment, and support applies.

REC 410R Experiential Learning Expedition
1 to 6:1.5 to 15 Not Offered
* Prerequisite(s): Department approval and University Advanced Standing
Teaches experiential learning and leadership in an expedition context. Includes but not limited to expedition planning, hard skills development, expedition behavior and group dynamics, team building, adventure tourism, and local cultural/natural resources. Repeatable up to 12 credits. Course fee of $90 for transportation, equipment applies.

REC 420R Outdoor Leadership and Management Practicum
2 to 4:0 to 4:0 to 20 Fall, Spring, Summer
* Prerequisite(s): REC 2400, 50 credit hours completed, minimum GPA of 2.25, Instructor approval, and University Advanced Standing
Provides students with practical work experience (volunteer or paid) either through a program offered by the college or in an existing outdoor or experientially based agency. Participation in a 150 hour department approved supervised outdoor recreation service. Topics vary by practicum experience. May be repeated for a total of 6 hours toward graduation. Graded credit/no credit.

REC 430R Teaching Assistantship in Outdoor Recreation
1 to 4:1 to 4:0 Fall, Spring
* Prerequisite(s): Instructor Approval and University Advanced Standing
Provides students who have demonstrated a high level of proficiency to serve as assistant instructors in selected Outdoor Recreation courses. Requires students to take active leadership roles. Includes planning, sequencing and teaching outdoor recreation topics and skills with faculty supervision. May be repeated for up to 8 credit hours toward graduation. Graded Credit/No Credit.

REC 4350 Research Methods in Outdoor Recreation
3:3:0 Not Offered
* Prerequisite(s): REC 2400 and (MAT 1000 or higher) and University Advanced Standing
Introduces students to key research in their field. Emphasizes analytical and interpretive skills. Develops scientific writing skills. Promotes design and utilization of comprehensive research methodologies commonly applied in Outdoor Recreation.

REC 4400 Natural Resource and Protected Area Management
3:3:0 Fall
* Prerequisite(s): REC 2200 and University Advanced Standing
Examines topics in the management of Nation Parks, National Forests, Bureau of Land Management, and other public lands and protected areas focusing on management strategies and techniques for addressing common resource and social problems in natural resource recreation management. Emphasizes case studies and problem analysis. Course fee of $78 applies for transportation, support applies.

REC 4500 Wildland Recreation Behavior
3:3:0 Spring
* Prerequisite(s): REC 4400 and University Advanced Standing
Studies behaviorally-based models and relevant research in wildland recreation. Provides an in-depth analysis of human behavior influences and topics including visitor satisfaction, crowding, carrying capacity, resource destruction, motivations, attitudes, preferences, norms, conflicts, and specialization. Using these theoretical concepts, visitor-based management models will be presented and criticized. Emphasis on critical problems affecting public land recreation management. Course fee of $78 applies for transportation, support applies.
Course Descriptions

REC 4800
Pre-Internship Seminar
1:1:0  Fall, Spring
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): REC 420R

Prepares the student to make the transition from student to professional in Outdoor Recreation. Includes discussion of internship selection, application materials, interviewing skills, job search, salary negotiation, and other professional issues. Provides mentoring during the internship search process.

REC 481R
Senior Internship
1 to 8:0:5 to 40  Fall, Spring, Summer
* Prerequisite(s): REC 4800, REC 420R, 80 credit hours completed, minimum 2.5 GPA, instructor approval, and University Advanced Standing

Provides supervised, hands-on field experience for excellent students preparing to take entry-level positions in recreation. May be repeated for a maximum of 12 credits toward graduation. May be graded Credit/No Credit.

REC 489R
Undergraduate Research in Recreation
1 to 4:0:5 to 20  Fall, Spring, Summer
* Prerequisite(s): REC 2200, Departmental approval of research proposal, and University Advanced Standing

Provides students the opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is characteristic of the recreation discipline and worthy of communication to a broader audience. May be repeated for a maximum of 8 credits toward graduation.

REC 490R
Topics in Recreation
1 to 3:1 to 3:0  On Sufficient Demand
* Prerequisite(s): (REC 2200 or Instructor Approval) and University Advanced Standing

Focuses student reading, research, and discussion on specific areas of concentration within the field of outdoor recreation management. (Specific areas of focus will change as the instructor and his or her focus or expertise changes.) Analyzes how outdoor recreation affects and is affected by culture, ideology, socio-economic factors, history, etc. Focuses may include: Recreation and Popular Culture, Recreation and Diversity, and History and Philosophic Issues in Recreation, among others. May be repeated for up to 6 credits toward graduation.

REC 4950
Senior Seminar
2:2:0  Spring
* Prerequisite(s): REC 2400, REC 3100, MATH 1040 or higher, and University Advanced Standing

Examines current outdoor recreation topics that allow senior students the opportunity to relate academic studies to the latest problems, changes, and trends in the field.

Religious Studies (RLST)

RLST 3540 (Cross-listed with: PHIL 3540)
Christian Ethics
3:3:0  On Sufficient Demand
* Prerequisite(s): PHIL 1610 and University Advanced Standing

Examines key developments and conceptions in Christian ethics through historical and conceptual methodologies. Explores the relationship between religious and secular approaches to ethics in their approach to questions of war, economics, politics, and/or other relevant issues.

RLST 3610 (Cross-listed with: PHIL 3610)
Introduction to Christian Theology
3:3:0  On Sufficient Demand
* Prerequisite(s): PHIL 1610 and University Advanced Standing

Examines key developments and conceptions in Christian theology through historical and conceptual methodologies.

RLST 3620 (Cross-listed with: PHIL 3620)
Mormon Theology and the Christian Tradition
3:3:0  On Sufficient Demand
* Prerequisite(s): PHIL 1610 and University Advanced Standing

For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Engages students in exploring the defining features of Mormon thought in relation to the broader Christian tradition. Examines traditional theological questions such as the problem of evil, the scriptural canon, the nature of God and humanity, and the role of ritual.

RLST 3650 (Cross-listed with: PHIL 3650)
Approaches to Religious Studies
3:3:0  Spring
* Prerequisite(s): PHIL 2050 or PHIL 205H or PHIL 205G or Instructor approval and University Advanced Standing

For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Teaches methodological approaches and critical thinking strategies in the study of religion. Explores various disciplines in their approaches to religious belief and practice. Includes the study of such thinkers as David Hume, Immanuel Kant, Friedrich Schleiermacher, Rudolf Otto, William James, Ludwig Feuerbach, Soren Kierkegaard, Max Weber, Emile Durkheim, John Hick, and Rene Girard.

RLST 366R (Cross-listed with: PHIL 366R)
Issues in Religious Studies
3:3:0  Fall, Spring, Summer
* Prerequisite(s): PHIL 2050 or PHIL 205H or PHIL 205G or Instructor approval and University Advanced Standing

For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Addresses specific topics and theoretical approaches related to religious studies. Topics may include religion and violence, religion and public discourse, religious ritual, etc. Subject matter varies by semester and is repeatable for a total of 9 hours of credit.

Russian (RUS)

RUS 1010
Beginning Russian I
4:4:1  Fall

Studies conversational Russian that is used in daily settings. Includes culture study, speaking, listening, reading, and writing. Emphasizes conversation in real life situations. Uses the Natural and Total Physical Response teaching methods. Lab access fee of $10 applies.

RUS 1020
Beginning Russian II
4:4:1  Fall

Studies second semester conversational Russian that is used in daily settings. Includes culture study, speaking, listening, reading, and writing. Emphasizes conversation in real life situations. Uses the Natural and Total Physical Response teaching methods. Completers should be able to communicate enough to visit or work in a Russian speaking country. Lab access fee of $10 applies.

RUS 115R
Russian Conversation I
1:1:0

Offers novice Russian speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen listening comprehension for natural conversational flow. Discusses with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

RUS 2010
Intermediate Russian I
4:4:1  Fall

* Prerequisite(s): Students need equivalent knowledge of RUS 1010

Reviews and builds upon the grammar, reading, writing, and conversation skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of Russia, maintaining a focus on oral proficiency. Lab access fee of $10 applies.

RUS 202G
Intermediate Russian II
4:4:0  Spring

* Prerequisite(s): Students need equivalent knowledge of RUS 2010

Studies fourth-semester conversational Russian that is used in daily settings. Includes culture study, speaking, listening, reading, and writing. Emphasizes conversation in real life situations. Uses the Natural and Total Physical Response teaching methods. Completers should be able to converse enough to visit or work in a Russian speaking country. Lab access fee of $10 applies.
RUS 215R
Russian Conversation II
1:1:0
* Prerequisite(s): Students should have equivalent knowledge of RUS 1020

Offers lower division / novice Russian speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

RUS 266G
Introduction to Russian Culture
3:3:0
* Prerequisite(s): ENGL 1010

Studies Russian culture (988-1900) within a historical, cultural, thematic, and aesthetic context.

RUS 3030
Russian Conversation and Composition I
3:3:0
* Prerequisite(s): (RUS 202G or instructor approval) and University Advanced Standing

Emphasizes production skills [speaking and writing], reviews and expands lexical depth and advances mastery of Russian grammar. Examines contemporary Russian culture topics through studying a variety of Russian sources: readings, film, lecture, individual research, etc. Analyzes topics through active class discussion in Russian. Conducted entirely in Russian.

RUS 3040
Russian Conversation and Composition II
3:3:0
* Prerequisite(s): (RUS 202G or instructor approval) and University Advanced Standing

Explores communicative skills in Russian. Provides opportunity for students to improve language production through extensive oral and written instruction and study of selected literary and cultural texts. Advances mastery of Russian grammar while emphasizing production skills of speaking and writing. Prepares students to participate fully in subsequent advanced courses. All course work conducted in Russian.

RUS 3050
Advanced Russian
3:3:0
Fall, Spring
* Prerequisite(s): RUS 202G, one year residency in a Russian-speaking country, or instructor approval

Designed for non-native Russian speakers, who, as a result of foreign residency or similar exposure to the language, have attained a fairly good mastery of basic Russian. Targets major grammatical concepts with a focus on oral proficiency development. Overviews Russian culture and gives an introduction to Russian literature. Lab access fee of $10 applies.

RUS 3200
Business Russian
3:3:0
* Prerequisite(s): RUS 3050 and University Advanced Standing

Explores communicative skills in Russian. Provides opportunities for students to improve language production through extensive oral and written instruction and study of selected literary and cultural texts. Advances mastery of Russian grammar while emphasizing production skills of speaking and writing. Prepares students to participate fully in subsequent advanced courses. All course work conducted in Russian.

RUS 3520
Russian Culture and Civilization
3:3:0
* Prerequisite(s): (RUS 3050 or equivalent) and University Advanced Standing

Explores the main Russian cultural influences of the 20th century. Examines the cultural, social and political movements developed from roughly 1880-1999 and considers the main figures who embody these movements. Focuses on the extensive practice of translation and interpretation from English to Russian and from Russian to English.

RUS 4050
Special Problems in Grammar Usage and Style
3:3:1
* Prerequisite(s): [(RUS 3030 and RUS 3040) or RUS 3050] and University Advanced Standing

Reviews Russian grammar focusing on problem areas. Explores grammar as deployed in different genres. Emphasizes writing in different styles. Identifies styles in readings and compose according to certain styles.

RUS 4110
Translation and Interpretation
3:3:0
On Sufficient Demand
* Prerequisite(s): (RUS 3050 or equivalent) and University Advanced Standing

Introduces translation as a discipline. Develops the special skills needed for translating and interpreting, and to achieve mastery of the contemporary spoken and written language. Discusses basic theory, principles and tools of translation. Employs the tools of translation: dictionaries, glossaries, grammars and computerized resources. Focuses on the extensive practice of translation and interpretation from English to Russian and from Russian to English.

RUS 416G
Post Soviet Russian Media and Film
3:3:2
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Examines visual media with special attention paid to the embedded cultural discourse that can only be understood with references to Russian history, language, and cultural identity. Explores Russia's depiction of and relationship with its past, present and future. Explores central questions about visual media in post-Soviet society: the function of cinema in the new Russia; how cinema offers a window on Russia's past; how cinema articulates the reality of contemporary Russian life.

RUS 490R
Special Topics in Russian Studies
3:3:0
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Explores a variety of subjects relevant to the study of Russian language, literature and culture. Engages students in critical analysis and discourse. May be repeated for a maximum of 6 credits toward graduation.
Student Leadership and Success Studies (SLSS)

**SLSS 1000**  
**University Student Success**  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): Appropriate reading skills  
Introduces and integrates new students to the UVU community, both academically and socially. Teaches strategies for academic success, such as critical thinking skills, time and financial management, and effective collaboration techniques. Develops student awareness of campus resources and assists in exploring and establishing personal, academic, and career goals. Includes lectures, group interaction, online interaction with faculty and students, in-class exercises, and projects which apply learning to real-life situations.

**SLSS 101R**  
**Student Success Topics**  
1 to 3:1 to 3:0  
Fall, Spring, Summer  
* Prerequisite(s): Appropriate reading skills  
Variable credit course that surveys essential skills for success in college. Topics covered include, but are not limited to: memory, note taking, test taking, textbook reading and study strategies, time management, writing processes, communication, and thinking skills. May be repeated for a maximum of 9 credits toward graduation. May be graded credit/no credit.

**SLSS 103R**  
**Student Leadership Development I**  
2:1:3  
Fall, Spring  
Provides an overview of leadership styles, personalities, and organizational dynamics for student leaders. Explores the structure and culture of Student Leadership at Utah Valley University, the governing boards of higher education, and the State of Utah relating to shared governance and student involvement in campus leadership. May be repeated for a maximum of 8 credits toward graduation. May be delivered hybrid.

**SLSS 104R**  
**Student Leadership Development II**  
2:1:3  
Fall, Spring  
* Prerequisite(s): Departmental Approval  
Focuses on the nature of leadership, citizenship, and advocacy in a democracy. Provides an overview of leadership and civics as crucial to any leader, including a student leader. May be repeated for a maximum of 8 credits toward graduation.

**SLSS 1050**  
**Library Research**  
1:1:0  
Fall, Spring, Summer  
Introduces information gathering strategies and processes. Teaches discovery of books, articles, and other information sources. Emphasizes critical evaluation and ethical use of information. Prepares students for in-depth research. May be delivered online.

**SLSS 1100**  
**Stress Management--Hardiness**  
3:3:0  
Fall, Spring, Summer  
Introduces and integrates new students to the UVU community, both academically and socially. Teaches strategies for academic success, such as critical thinking skills, time and financial management, and effective collaboration techniques. Develops student awareness of campus resources and assists in exploring and establishing personal, academic, and career goals. Includes lectures, group interaction, online interaction with faculty and students, in-class exercises, and projects which apply learning to real-life situations.

**SLSS 1120**  
**Leadership and Civic Engagement**  
3:3:0  
Fall, Spring, Summer  
Identifies how student leaders can impact the UVU community and the community which they live. Explores student leadership models in relation to change and discover community needs in a service-learning environment. Applies student leadership practices and understanding of civic engagement to inform the UVU community of a local, national or world-wide community need(s). Reflects on student leadership, civic engagement, and community. Practices life-long learning and advocacy for community change.

**SLSS 1190**  
**Power Reading and Learning Strategies**  
3:3:0  
Fall, Spring, Summer  
For students with good reading skills who want to more efficiently and effectively understand and remember what they are reading in college texts. Presents a wide variety of critical thinking and reading strategies. Will be available face-to-face as well as on-line. May be delivered online.

**SLSS 1195**  
**Speed Reading**  
2:2:0  
Fall, Spring, Summer  
For students with good reading skills who want to increase reading speed and flexibility while maintaining or increasing their level of comprehension. Also teaches methods of speed studying.

**SLSS 1200**  
**The 7 Habits of Highly Effective People**  
3:3:0  
Fall, Spring, Summer  
Provides the foundation for personal leadership by teaching fundamental principles of character and life-changing paradigms. Examines the personal and organizational components of effectiveness. Focuses on high leverage changes such as time management, communication skills, win/win negotiation, and principle-centered life choices. Prepares students for life-long success. Includes highly interactive class discussions, application exercises, videos, and group work. May be delivered hybrid and/or online.

**SLSS 120R**  
**Testing Strategies for Educators**  
1:1:0  
Fall, Spring, Summer  
A course for prospective Elementary and Secondary Education Majors that focuses on helping students to acquire the study strategies and test taking skills necessary to pass examinations that allow them to be admitted into the education program and to receive state licensure. May be repeated for a maximum of 3 credits toward graduation.

**SLSS 1400**  
**Dimensions of Engaged Learning**  
1:1:0  
Fall, Spring, Summer  
Introduces students to theories and best practices related to engaged learning in higher education. Provides opportunities for students to collaborate, share ideas, and participate in common experiences.

**SLSS 141R**  
**University Forum**  
1:1:1  
Fall, Spring, Summer  
Encourages student participation in the academic and intellectual life of UVU through attendance and critical reflection on select academic and scholarly events. Integrates students' classroom learning with topical events through exposure to scholars and practitioners on a wide range of issues and from a variety of perspectives. May be repeated for a maximum of 8 credits toward graduation. Graded credit/no credit.

**SLSS 205G**  
**Global Trends and You**  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): ENG Test Score of 101 (or higher) or SLSS 1000 with a C- or better  
Examines what the world will look like in 25 years due to the influence of seven global dimensions or the 7 Revolutions (population, resource management, technology, information/knowledge, economic integration/conflict, and governance). Explores various global, political, economic, social, and behavioral systems; and examines underlying causes of those issues within students' lives. Introduces academic skills in research, communication, critical thinking, and personal leadership.

**SLSS 2100**  
**Major and Career Exploration**  
3:3:0  
Fall, Spring, Summer  
For students who are undecided about their major or career goals. Provides students with the opportunity to interact with career professionals; understand how to access internship, career preparation, and placement resources at UVU; and integrates understanding of self with knowledge of majors, careers, and the world of work. Utilizes an appropriate decision making model to identify possible major and career choices. May be delivered online. Course fee of $22 for materials applies.

**SLSS 2200**  
**Leadership Mentoring I**  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): SLSS 1000  
Provides the theoretical base and hands-on training in leadership and mentoring techniques for peer mentors, assists them in developing their own self-awareness and learning strategies, and explores methods for facilitating these in others. Explores teaching/facilitating learning as a form of leadership.
# Course Descriptions

## Sociology (SOC)

### SOC 1010
**Introduction to Sociology**
- **3:3:0**
- Fall, Spring, Summer
- Studies and compares social groups and institutions and their interrelationships. Includes culture, socialization, deviance, stratification, race, ethnicity, social change, and collective behavior. May be delivered hybrid and/or online.

### SOC 101H
**Introduction to Sociology**
- **3:3:0**
- Spring
- Studies and compares social groups and institutions and their interrelationships. Includes culture, socialization, deviance, stratification, race, ethnicity, social change, and collective behavior.

### SOC 1020
**Modern Social Problems**
- **3:3:0**
- Fall, Spring, Summer
- *Prerequisite(s): SOC 1010
- Studies and analyzes modern social problems such as crime, delinquency, family dysfunctions and inequality and exploitation of people in contemporary society. Class requires volunteer experience in community agencies.

### SOC 1200
**Sociology of the Family**
- **3:3:0**
- Fall, Spring, Summer
- *Prerequisites(s): SOC 1010
- Discusses the family in the context of society and its seven sociological institutions: family, media, government, economy, technology, education, and religion. Examines how changes in these institutions have facilitated many changes in the structure and function of the modern family. Examines traditional, current, and anticipated definitions of the family using core sociological theory and research tools. Evaluates cultural influence on the family. Focuses on strengthening marriages at the levels of dating, mate selection, marriage, newly wedded adjustment, parenting, finance, proactive family maintenance, and elderly family experiences. Examines the application of one's own life and family experiences while maintaining scientific rigor and critical awareness. May be delivered hybrid and/or online.

### SOC 2370
**Gender Roles**
- **3:3:0**
- *Prerequisite(s): ENGL 1010 with a C+ or higher
- Examines sociological perspectives of gender roles worldwide. Explores biological, cultural, social, and environmental expressions of maleness and femaleness. Addresses the effect of these areas on the construction of gender roles in various cultures around the world. Investigates how roles have changed over time and the consequences of these changes to broader societal norms globally and in the U.S.

### SOC 275R
**Survey of Current Topics 1 to 3:1 to 3:5**
- *Prerequisite(s): ANTH 101G or PSY 1010 or SOC 1010 and ENGL 1010 with a C+ grade or higher
- Presents selected topics in Sociology. Approaches subjects from a cross-disciplinary perspective. Requires a project demonstrating competency in the specific topic. May be repeated for nine credits toward graduation.

### SOC 2900
**Contemporary Social Theory**
- **3:3:0**
- Fall, Spring
- *Prerequisite(s): SOC 1010 and SOC 3310 and (ENGL 2010 or ENGL 2020 with a C+ or higher) and University Advanced Standing
- Surveys major sociological theories, which provide the basis for sociological research and the interpretation of social processes.

### SOC 320G
**Race and Minority Relations**
- **3:3:0**
- Fall, Spring, Summer
- *Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher) and University Advanced Standing
- Studies ethnic and racial minority groups and the development of formal and informal relationships shared by these groups and the majority group. Explores the roles and origins of these groups and the concepts of prejudice, ethnic inequalities, current minority group movements, cross-cultural issues, economic, political, and educational aspects of majority-minority relations.

### SOC 3300
**Classical Social Theory**
- **3:3:0**
- Fall, Spring
- *Prerequisite(s): (ENGL 2010 or ENGL 2020 with a minimum C+ grade), SOC 1010, and University Advanced Standing
- Examines the contributions of key theorists such as Durkheim, Weber, Marx, DuBois, and Addams to the development of contemporary sociology.

### SOC 3400
**Sociology of Religion**
- **3:3:0**
- *Prerequisite(s): ENGL 2010 or ENGL 2020 with a C+ or higher)
- SOC 1010, and University Advanced Standing
- Examines religion from a sociological perspective. Analyzes religion as a social phenomenon. Discusses religious organizations, religion and politics, and religion and social class. May be delivered hybrid.

### SOC 3410
**Sociology of Education**
- **3:3:0**
- Fall
- *Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher), SOC 1010, and University Advanced Standing
- For students who desire a better understanding of United States and world education systems. Examines and investigates educational trends and issues such as private vs. public systems; dropout rates; desegregation; student achievement/failure; education policies; race; class; gender issues; the 'Hidden Curriculum'; and education reform using Sociological theory and empirical research.

### SOC 3460
**Political Sociology**
- **3:3:0**
- Fall
- *Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher), SOC 1010, and University Advanced Standing
- Explores the distribution of political power at the national and international levels from a variety of theoretical perspectives. Pays particular attention to the power wielded by international media conglomerates and the influence of international institutions such as the World Trade Organization, the World Bank, and the International Monetary Fund.

### SOC 3510
**Sociology of Work and Occupations**
- **3:3:0**
- Spring
- *Prerequisite(s): ENGL 2010 or ENGL 2020 with a minimum C+ grade, SOC 1010, and University Advanced Standing
- Examines work and occupations in historical and contemporary contexts. Examines current employment patterns and trends, the nature of labor markets and jobs, the gendered arrangements of paid and unpaid work, the organization and management of work. Explores transformations in occupational settings resulting from changes in economy and labor market. Focuses on the macro level (the effects of advancements in technology, bureaucratization and unionization on the division of labor), the micro-level (job satisfaction and alienation), and on the interface between macro and micro levels (job prestige, rewards, effects of ethnicity, age, and other characteristics).

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SOC 3520 (Cross-listed with: ENST 3520) Environmental Sociology 3:3:0
* Prerequisite(s): (ENGL 2010 or ENGL 2020), SOC 1010, and University Advanced Standing

Explores in detail several different approaches to understanding the social causes of and solutions to environmental degradation. Discusses the development of a wide variety of theory-based critiques of various social institutions (e.g., economic, political, religious) and how these institutions' values can create and perpetuate unsustainable practices.

SOC 3560 Sociology of Deviance 3:3:0 Fall
* Prerequisite(s): (ENGL 2010 or ENGL 2020) with a C+ or higher), SOC 1010, and University Advanced Standing

Examines the strengths and weaknesses of several different definitions of deviance. Explains deviant behavior from a variety of theoretical perspectives and summarizes the existing data on several different forms of deviance, i.e., individual violations of social mores, street level crime, corporate crime, and crimes committed by nation states.

SOC 3700 Social Inequality 3:3:0 Spring, Summer
* Prerequisite(s): (ENGL 2010 or ENGL 2020) with a C+ or higher), SOC 1010, and University Advanced Standing

Studies social structure, culture, environment (urban/ rural axis), inequality, and poverty in American Society. Examines Spanish Harlem, Detroit, Appalachia, and the Bitterroot Valley of Montana.

SOC 3800 Animals and Society 3:3:0
* Prerequisite(s): (ENGL 2010 or ENGL 2020) with a C+ or higher), SOC 1010, and University Advanced Standing

Examines the roles that non-human animals play in human societies. Utilizes sociological approaches to study human-animal relationships and to critically evaluate the ideologies which justify these relationships. Pays particular attention to human relationships in North America to domestic pets, livestock, and wildlife.

SOC 3850 Rural Life--Global and Local 3:3:0
* Prerequisite(s): (ENGL 2010 or ENGL 2020) with a C+ or higher), SOC 1010, and University Advanced Standing

Introduces rural life across the globe. Discusses the views of agrarian writers and thinkers. Explores rural values, rural communities, rural race relations, and rural poverty. Evaluates how the rural perspective provides a platform for critique of modern societal transformations in the twentieth and early twenty-first centuries.

SOC 4020 (Cross-listed with: PSY 4020) Survey Research Design 3:3:0 Fall, Spring, Summer
* Prerequisite(s): (ENGL 2010 or ENGL 2020) with a C+ or higher), BESC 3010, BESC 3020, and University Advanced Standing

Teaches methods of conducting survey research. Includes how to construct, validate, and administer surveys; how to conduct interviews; how to report data, and how to interpret findings.

SOC 4400 Social Change 3:3:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020), SOC 1010, and University Advanced Standing

Analyzes societies and their component parts. Evaluates various endogenous and exogenous forces which bring about social change. Examines historical and contemporary processes of social change and stratification. Explores current social conditions and applicable methods of social change. Offered once every other year.

SOC 475R Current Topics in Sociology 1 to 3:1 to 3:0 On Sufficient Demand
* Prerequisite(s): (ENGL 2010 or ENGL 2020) with a minimum grade of C+), SOC 1010, and University Advanced Standing

Presents selected topic in Sociology and will vary each semester. Requires a project demonstration competency in the specific topic. May be repeated 3 times with different topics.

SOC 490R Independent Studies 1 to 3:1 to 3:0 On Sufficient Demand
* Prerequisite(s): Instructor approval, department chair approval, and University Advanced Standing

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, oral presentation, or other options as approved by instructor. May be repeated for a maximum of 6 credits.

Spanish (SPAN)

SPAN 1010 Beginning Spanish I 4:4:1 Fall, Spring, Summer
* Prerequisite(s): Students need equivalent knowledge of SPAN 1010

Includes the remaining grammar and language concepts, literature, and cultural readings. Uses an eclectic method of instruction, emphasizing conversational exchanges. Conversational lab required. Computer and multimedia lab encouraged. May be delivered hybrid. Lab access fee of $10 applies.

SPAN 115R Spanish Conversation I 1:1:0

Offers novice Spanish speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen listening comprehension for natural conversational flow. Contrast with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

SPAN 1500 Spanish Travel Study 3:1:6 On Sufficient Demand

Introduces students to a Spanish-speaking foreign country for a minimum of 10 days of intensive language and culture study. Course entails several meetings prior to departure and at least one after the return home to facilitate observation and analysis of data to be gathered on the tour. An organized presentation of that data will be contained in a multimedia project due no later than one month after tour.

SPAN 2010 Intermediate Spanish I 4:4:1 Fall, Spring, Summer
* Prerequisite(s): Students need equivalent knowledge of SPAN 1020

Reviews and builds upon the grammar, reading, writing, and conversation skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of the Spanish speaking world, maintaining a focus on oral proficiency. Lab access fee of $10 applies.
SPAN 202G
Intermediate Spanish II
4:4:0 Fall, Spring, Summer
* Prerequisite(s): Students need equivalent knowledge of SPAN 2010
Emphasizes reading, writing, and conversation skills through studies in literature. Media reading labs are available to help reading comprehension. Requires oral and written response. Lab access fee of $10 applies.

SPAN 215R
Spanish Conversation II
1:1:0 * Prerequisite(s): Students should have equivalent knowledge of SPAN 1020
Offers lower division / novice Spanish speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

SPAN 255R
Oral Communication
3:3:1 On Sufficient Demand * Prerequisite(s): Students need equivalent knowledge of SPAN 2010
Pursues skill development according to American Council of Teachers of Foreign Language oral proficiency guidelines, covers structural and linguistic paradigms essential to correct usage, considers proper application of tense and tense sequence, provides ample opportunity for students to interact, converse, present, and engage progressively in the language in multiple and varied formats. May be repeated for a maximum of 9 credits toward graduation.

SPAN 3030
Spanish Conversation and Composition I
3:3:0 Fall * Prerequisite(s): (SPAN 202G or equivalent) and University Advanced Standing
Explores communicative skills in Spanish. Provides opportunity for students to improve language production through extensive oral and written instruction and study of selected literary and cultural texts. Reviews grammar topics such as verb tenses, use of adjectives, and object pronouns.

SPAN 3040
Spanish Conversation and Composition II
3:3:0 Spring * Prerequisite(s): (SPAN 202G or equivalent) and University Advanced Standing
Explores communicative skills in Spanish. Provides opportunity for students to improve language production through extensive oral and written instruction and study of selected literary and cultural texts. Reviews grammar topics such as the subjunctive, relative clauses, and future and conditional tenses.

SPAN 3050
Advanced Spanish
3:3:0 Fall, Spring, Summer * Prerequisite(s): SPAN 202G, one year residency in a Spanish-speaking country, or instructor approval.
For non-native Spanish speakers who, as a result of foreign residency or similar exposure to the language, have attained a fairly good mastery of basic Spanish. Overviews the basic grammar of Spanish with special emphasis on major concepts, i.e., mastery of verb forms, object pronouns, preterit vs. imperfect, use of the subjunctive, etc. (Approximately 50% of the course, which is fairly fast paced, is dedicated to the study of literature and culture. Individuals who prefer a slower-paced approach should consider taking SPAN 3030 and SPAN 3040, which will be somewhat equivalent to SPAN 3050.). May be delivered online. Lab access fee of $10 applies.

SPAN 3060
Oral Proficiency
1:1:0 Fall, Spring * Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050
Designed to help students understand the standards for oral proficiency as defined by the American Council on the Teaching of Foreign Languages (ACTFL) and to improve their oral proficiency skills. Is required of all Spanish and Spanish Education majors, who should achieve minimally the Intermediate High level as per the ACTFL guidelines. Requires Oral Proficiency Interview (OPI).

SPAN 3220
Pronunciation Phonetics and Phonology
3:3:0 Spring * Prerequisite(s): SPAN 3050 and University Advanced Standing
Explores comparatively the articulatory system of English and Spanish, not only to help students identify and correct anomalies or inaccuracies in their own speech or the speech of others, but also to strengthen their understanding of the nature of oral speech. Provides extensive laboratory involvement for practice and analysis.

SPAN 351G
Culture and Civilization--Spain
3:3:0 Fall * Prerequisite(s): (SPAN 3050 or equivalent) and University Advanced Standing
Explores chronologically the cultural formation and development of Spain. Completers should acquire an understanding of the ethnic development and linguistic history of Spain. Presentations and class instruction conducted entirely in Spanish.

SPAN 352G
Culture and Civilization--Spanish America
3:3:0 Spring * Prerequisite(s): SPAN 3050 and University Advanced Standing
Explores chronologically the cultural formation and development of Spanish America. Completers should acquire an understanding of the ethnic development and linguistic history of Spanish American countries and societies. Presentations and class instruction conducted entirely in Spanish.

SPAN 3610
Spanish Peninsular Literature to 1800
3:3:0 Fall * Prerequisite(s): ([SPAN 3030 and SPAN 3040] or [SPAN 3050 or equivalent]) and University Advanced Standing
Introduces chronologically to 1800 representative Spanish authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the Spanish language. Presentations and class instruction conducted entirely in Spanish.

SPAN 3620
Spanish Peninsular Literature from 1800
3:3:0 Spring * Prerequisite(s): ([SPAN 3030 and SPAN 3040] or [SPAN 3050 or equivalent]) and University Advanced Standing
Introduces chronologically from 1800 representative Spanish authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the Spanish language. Presentations and class instruction conducted entirely in Spanish.
Course Descriptions

SPAN 3630
Spanish American Literature to 1880
3:3:0 Spring
* Prerequisite(s): [(SPAN 3030 and SPAN 3040) or SPAN 3050] and University Advanced Standing

Introduces chronologically to 1880 representative Spanish American authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the Spanish language. Presentations and class instruction conducted entirely in Spanish.

SPAN 3640
Spanish American Literature from 1880
3:3:0 Fall
* Prerequisite(s): [(SPAN 3030 and SPAN 3040) or SPAN 3050] and University Advanced Standing

Introduces chronologically from 1880 representative Spanish American authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the Spanish language. Presentations and class instruction conducted entirely in Spanish.

SPAN 380R
Community Engagement in Spanish
1 3:1:2 6
* Prerequisite(s): [(SPAN 3030 and SPAN 3040) or SPAN 3050 or instructor approval] and University Advanced Standing

Offers students the opportunity to volunteer in projects involving the local Hispanic community. Addresses the linguistic and cultural aspects of community volunteering. Requires from 2 to 6 hours of volunteering weekly in local schools, clinics, social service agencies, or civic organizations. Repeatable for a maximum 6 hours credit toward graduation.

SPAN 4050
Special Topics in Grammar Usage and Style
3:3:1 Fall, Spring
* Prerequisite(s): [(SPAN 3030 and SPAN 3040) or SPAN 3050] and University Advanced Standing

Reviews Spanish grammar focusing on problem areas. Explores grammar as deployed in different genres. Emphasizes writing in different styles. Completers should be able to identify styles in readings and compose according to certain styles. Lab access fee of $10 applies.

SPAN 4100
Teaching Spanish Grammar
3:3:0 Spring
* Prerequisite(s): Admission to a Secondary Education teacher licensure program or departmental approval; [(SPAN 3030 and SPAN 3040) or SPAN 3050] and University Advanced Standing
* Corequisite(s): LANG 4200 recommended

Enables prospective Spanish educators to acquire the strategies, methodology and techniques of how to present deductive and inductive principles of Spanish grammar. Discusses basic theory, principles and tools of Spanish linguistic issues. Includes extensive principle development and microteaching used as an assessment tool.

SPAN 4110
Translation and Interpretation
3:3:0 Fall
* Prerequisite(s): SPAN 4050 and University Advanced Standing

Introduces translation as a discipline. Discusses basic principles and tools of translation. Employs the tools of translation: dictionaries, glossaries, grammars and computerized resources. Extensive practice of translation and interpretation from English to Spanish and from Spanish to English. Lab access fee of $10 applies.

SPAN 412R
Spanish for the Professions
3:3:0 On Sufficient Demand
* Prerequisite(s): (SPAN 3050 or departmental approval) and University Advanced Standing

Offers Medical Spanish, Legal Spanish, or Spanish for Tourism according to student demand. Focuses on the practical needs of students who seek careers in the applicable areas. Addresses the specialized vocabulary and communicative ability necessary for a professional in a bilingual English-Spanish or monolingual Spanish environment. Introduces interpretation in professional situations. May be repeated for a maximum of 6 credits toward graduation with different topics.

SPAN 4130
English Spanish Interpretation for the Community
3:1:6
* Prerequisite(s): [(SPAN 3030 and SPAN 3040) or SPAN 3050] and University Advanced Standing

Prepares students to serve as interpreters in the community in the areas of Social Services and Small Claims Courts. Includes a significant hands-on service component to be carried out in Middle Schools and High Schools as well as the Small Claims Courts in the area.

SPAN 4200
Advanced Business Spanish
3:3:0 Fall, Spring
* Prerequisite(s): SPAN 3200 and University Advanced Standing

Focuses on Spanish business terminology, documentation, case studies and transactions. Explores grammar in different genres, emphasizing composition in different writing styles. Prepares students to take the Spanish to English. Lab access fee of $10 applies.

SPAN 4400
Spanish Linguistics
3:3:0
* Prerequisite(s): [(SPAN 3030 and SPAN 3040) or SPAN 3050] and University Advanced Standing

Provides a comprehensive introduction and overview of the different areas of Spanish Linguistics. Designed for students with a focus in Pedagogy, Business Spanish, Translation, Spanish for the Professions or Literature and Culture. Focuses on the core concepts of the various sub-fields of linguistics applied to Spanish: Phonetics and Phonology, Morphology, Syntax, Semantics, Sociolinguistics, the History of the Language, Dialectology and Pragmatics.

SPAN 4500
Advanced Spanish Writing
3:2:3
* Prerequisite(s): SPAN 3050 and University Advanced Standing

Hybrid Writing Course. Prepares students to focus on form, content and intentionality of discourse when writing in Spanish. Lab access fee of $10 applies.

SPAN 460R
Topics in Hispanic Literature
3:3:0 On Sufficient Demand
* Prerequisite(s): (SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640) and University Advanced Standing

Advanced study of literature in Spanish. Addresses key texts representative of the development of genres, themes, or individual authors’ works. Engages students in critical analysis and discourse. Possible topics may include Medieval Spanish Literature, the "Generacion del 98," the works of Jorge Luis Borges, or the recent Spanish American novel. May be repeated for a maximum of six credits toward graduation with different topics.

SPAN 4610
Golden Age Spanish Literature
3:3:0 On Sufficient Demand
* Prerequisite(s): (SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640) and University Advanced Standing

Examines the literature of Spain from the XVI and XVII centuries. Addresses key texts representative of the social, historical, political, and metaphorical themes of the Spanish Golden Age. Engages students in critical analysis and discourse. May include the study of the novel, short narrative, drama or poetry. Conducted entirely in Spanish.

SPAN 4630
Contemporary Peninsular Literature
3:3:1
* Prerequisite(s): (SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640) and University Advanced Standing

Examines the works of Jorge Luis Borges, or the recent Spanish American novel. May be repeated for a maximum of six credits toward graduation with different topics.

SPAN 4660
Contemporary Spanish American Literature
3:3:0 On Sufficient Demand
* Prerequisite(s): (SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640) and University Advanced Standing

Introduces the major works of Spanish authors in the latter part of the 20th and early 21st centuries. Engages students in close reading and textual analysis through class discussion, written projects, examinations, and oral presentations. Conducted entirely in Spanish.

SPAN 484R
Special Topics in Hispanic Studies
1 to 3:1 to 3:0 to 1
* Prerequisite(s): (SPAN 3050 or departmental approval) and University Advanced Standing

Presents selected topics in Hispanic Studies. Varies each semester. Topics will reflect the interdisciplinary nature of the Hispanic Studies field. Projects and evaluation will vary according to the topic. May be repeated for a maximum of 6 credits toward graduation with different topics.
STAT 4900  
Capstone Seminar  
3:3:0  
Fall, Spring, Summer  
* Prerequisite(s): (18 credits of upper-division Spanish courses or instructor approval) and University Advanced Standing  
Explores and reviews comprehensively the undergraduate Spanish course work, providing instruction and testing in specific areas to verify student competency. Completion of a specific reading list required.

Statistics (STAT) 

STAT 2050  
Introduction to Statistical Methods  
4:4:0  
* Prerequisite(s): MATH 1050  
Demonstrates graphical and numerical data analysis. Applies discrete and continuous probability distributions to real data sets. Teaches inferential problems (one and two sample problems). Covers analysis of variance and regression problems. Applies Non-Parametric inferential techniques to appropriate problems. Teaches categorical data analysis. Uses statistical software such as R or SAS for data analysis.

STAT 2060  
Introduction to Statistical Computing  
1:0:3  
* Prerequisite(s) or Corequisite(s): MATH 2040 or STAT 2050  
Familiarizes students with the SAS statistical software package. Teaches how to organize, input data, and be able to use reference books to figure out the appropriate way to run the analysis needed using SAS.

STAT 4100  
Design of Experiment  
3:3:0  
* Prerequisite(s): (MATH 2040 or STAT 2050) and University Advanced Standing  
Introduces the design and analysis of randomized comparative experiments. Includes single factor ANOVAs, randomized block designs, Latin squares, factorial designs, and nested and split plot designs. Covers mixed models including random effects and computation of expected mean squares to form appropriate F-ratios. Uses SAS statistical program software to perform statistical analysis.

STAT 4200  
Survey Sampling  
3:3:0  
* Prerequisite(s): (MATH 2040 or STAT 2050) and University Advanced Standing  
Introduces survey sampling including simple random sampling, stratified random sampling, systematic and cluster sampling. Discusses ratio and difference estimators, weighing for non-responses, eliminating sources of bias and designing the questionnaire.

STAT 4300  
Stochastic Processes  
3:3:0  
* Prerequisite(s): (MATH 3140 or MATH 4710) and University Advanced Standing  
Teaches how to perform statistical inference on Markov chains, including classifying states, computing mean and variance of recurrence times, and investigating long-run limiting behavior to model physical systems using the Poisson process. Teaches how to calculate and analyze queuing characteristics of each of the popular queuing models.

STAT 4400  
Multivariate Analysis  
3:3:0  
* Prerequisite(s): STAT 2050, MATH 2210, MATH 2270, and University Advanced Standing  
Introduces multivariate data analysis. Performs inference on data arising from multivariate normal distribution including MANOVA, principal component analysis, factor analysis, canonical correlation analysis, discriminant analysis and cluster analysis. Uses Statistical software R or SAS for data analysis on all the topics covered.

STAT 4500  
Nonparametric Statistics  
3:3:0  
* Prerequisite(s): (MATH 2040 or STAT 2050) and University Advanced Standing  
Introduces nonparametric statistical procedures to apply in situations when parametric statistics (usually based on normality) are not appropriate. Covers types of nonparametric analyses that includes one and two sample hypothesis tests, goodness-of-fit tests, contingency tables, block designs, and regression analysis.

STAT 4600  
Statistical Process Control  
3:3:0  
* Prerequisite(s): (MATH 2040 or STAT 2050) and University Advanced Standing  
Presents the theory and methods of quality monitoring including process capability, control charts, acceptance sampling, quality engineering, and quality design.

Substance Use Disorder Counseling (SUDC) 

SUDC 3430  
Psychopharmacology for the Substance Use Disorder Counseling Field  
3:3:0  
* Prerequisite(s): Admission to the UVU SUDC program and University Advanced Standing  
Addresses basic principles of nervous system function with emphasis on communication between nerve cells. Focuses on therapeutic drugs as well as drugs of abuse to include mechanisms of action and behavioral effects. Includes content on dynamics of addiction. May be delivered online.

SUDC 3470  
Dynamics of Addiction  
3:3:0  
* Prerequisite(s): Admission to the UVU SUDC program and University Advanced Standing  
Explores processes contributing to development and maintenance of addiction. Addresses internal (genetics, motivation) and external (family dynamics, peer pressure) contributors. Includes issues related to drug policy, costs of addiction, and prevention/treatment of drug addiction. May be delivered online.

SUDC 4300  
Introduction to Substance Use Disorder Counseling  
3:3:0  
* Prerequisite(s): Admission to the UVU SUDC program and University Advanced Standing  
Surveys concepts and practices of major therapeutic systems, with a focus on substance use disorder counseling. Introduces students to the major psychotherapeutic models of both individual and group therapy. Addresses basic counseling issues including ethics and professionalism. Develops skills in relationship development, interviewing, initial assessment and intake procedures. May be delivered online.

SUDC 4400  
Advanced Substance Use Disorder Counseling  
3:3:0  
* Prerequisite(s): Admission to the UVU SUDC Program, completion of SUDC 4300 with a C- grade or higher, and University Advanced Standing  
Expands concepts and practices of major therapeutic systems, with a focus on advanced substance use disorder counseling. Continues coverage of major psychotherapeutic models of both individual and group therapy. Elaborates on basic counseling issues including ethics and professionalism. Continues to develop skills in relationship development, interviewing, initial assessment, and intake procedures. May be delivered online.

SUDC 4710  
Introduction to Professional Development  
2:2:0  
* Prerequisite(s): Admission to the UVU SUDC program and University Advanced Standing  
Defines the scope of practice and legal and ethical obligations of substance abuse counselors. Examines the knowledge, skills, attitudes, legal obligations, and limitations of practice of professional substance abuse counselors. Introduces the 12 core functions. May be delivered online.

SUDC 4720  
Advanced Professional Development  
3:3:0  
* Prerequisite(s): Admission to the UVU SUDC program, completion of SUDC 4710 with a C- grade or higher, and University Advanced Standing  
Expands on professional issues in Substance Use Disorder Counseling. Focuses on the 12 core functions of substance abuse, ethics, theories of substance abuse, and theory and practice of individual and group counseling. May be delivered online.
Course Descriptions

SURV 1020
Introduction to Geomatics
1:1:0 Fall
Orientation to the field of Geomatics including Boundary Surveying, Geodesy, Forensic Surveying, Construction Surveying, Geographic Information Systems (GIS), and other types of surveys. Involves presentations by community/industry professionals encompassing the Geomatics occupation. Teaches college success principles and practices for the Geomatics program. Lab access fee of $35 for computers applies.

SURV 2030
Geodesy
3:3:0 Spring
* Prerequisite(s): EGDT 2400, MATH 1060, MATH 1100, SURV 1020, and matriculation into the Geomatics BS degree
Examines the science of geodesy. Includes size and shape of the earth, spherical and ellipsoidal geometry, the celestial sphere, and astronomical trigonometry. Involves Global Positioning Systems theory for computing of position on the earth using three-dimensional coordinate systems, reference coordinate systems, state plane coordinates, transformations, spheroid, ellipsoid, geoid datums, celestial sphere, orthometric heights and leveling. Covers basic properties and characteristics of the most common map projections with emphasis on the projections used in State Plane Coordinates such as Lambert Conformal, Universal Transverse Mercator (UTM). Exposes the student to survey applications of practical astronomy including time systems, astronomical azimuth, and Solar/Polaris observations and calculations.

SURV 2210
Photogrammetry
3:3:0 Fall
* Prerequisite(s): EGDT 1400, MATH 1050, and matriculation into the Geomatics BS degree
Examines principals of photogrammetry as applied to surveying and mapping. Covers geometry of vertical and aerial photographs, stereoscopic parallax, geometry of tilted photographs, stereoplottting, close-range photogaphic analysis, planimetric and topographic maps, flight planning, digital photogrammetry, aerial cameras and camera calibration, and the theory and techniques of orientation. Introduces digital imagery, aerial triangulation, and the history of photogrammetry. Software fee of $18 applies. Lab access fee of $35 for computers applies.

SURV 2220
Remote Sensing
3:3:0
* Prerequisite(s): MAT 1010 and matriculation into the Geomatics BS degree

SURV 2310
Surveying US Public Lands
3:3:0 Fall
* Prerequisite(s): EGDT 1400, MATH 1060, and matriculation into the Geomatics BS degree
Studies U.S. Public Land Survey System (PLSS) as described in the current official Department of the Interior-Bureau of Land Management (BLM) Manual of Instructions for Surveying Public Lands with emphasis on federal, state, and other applicable laws, evidence, resurveys, and subdivision of sections. Covers a detailed study of general and special instructions, irregularities in subdivisions, lost and obliterated corners, single and double proportion methods, monumentation, riparian boundary laws and rights, hiatuses, mineral surveys, and official survey documents. Introduces Spanish and Mexican land grants, as well as state and national boundaries. Lab access fee of $35 for computers applies.

SURV 2320
Property Descriptions
2:2:0 Fall
* Prerequisite(s): ENGL 1010, EGDT 1400, and matriculation into the Geomatics BS degree
Involves analysis, interpretation, and writing of legal descriptions with proper form, controlling elements, metes-and-bounds, sectionalized land descriptions, easements, and rights-of-way. Discusses different types of descriptions, junior-senior rights in descriptions, latent and patent ambiguities, basis of bearing and interpretation, easements, and reversions. Applies practical exercises and case studies.

SURV 2360
Public Land Records
2:2:0 Fall
* Prerequisite(s): EGDT 1400 and matriculation into the Geomatics BS degree
Studies the responsibilities of the professional land surveyor regarding due diligence in searching public land records and performing applicable legal research. Examines public records, corner records, and recording laws. Emphasizes title search to patent and includes zoning laws relating to land. Involves tour(s) of local record systems and/or public offices.

SURV 3010
Measurement Analysis and Adjustments
4:4:0 Spring
* Prerequisite(s): EGDT 2400, MATH 1060, MATH 1100, MATH 2040, matriculation into the Geomatics BS degree, and University Advanced Standing
Examines observation theory, and observational error analysis. Discusses the theory of measurement errors, principles of error propagation, variance and covariance, and the theory of the least squares method. Studies variances and co-variances of observed, derived, and adjusted quantities; regression analysis, and polynomial curve fitting. Involves systems of linear equations, linearization, and iteration of nonlinear equations; adjustment validation using hypothesis testing; modeling of surveying problems using different techniques of least squares and also presents several methods used to fit survey data to mathematical and survey models. Software fee of $18 applies. Lab access fee of $35 for computers applies.
SURV 3030
Land Development Planning, Platting, and Mapping
3:3:0 Spring
* Prerequisite(s): EGDT 1040, EGDT 1400, matriculation into the Geomatics BS degree, and University Advanced Standing

Discusses land use planning techniques for residential and commercial developments. Subdivisions, industrial parks, and commercial complexes are studied along with the associated governmental regulations, codes, rules, and approval processes and procedures. Requires a mock public presentation on course projects. Uses current surveying/engineering software to develop and plot drawings including: subdivision plats, records of survey, ALTA surveys, topographic site surveys, and other maps. Software fee of $18 applies. Lab access fee of $35 for computers applies.

SURV 3220
Control Surveys
3:3:0 Fall
* Prerequisite(s): SURV 2030, SURV 3010, matriculation into the Geomatics BS degree, and University Advanced Standing

Applies principles and theories presented in prerequisite courses and moves the student to an advanced applications level. Studies the establishment of control surveys and survey networks. Reviews compass rule adjustment computation, matrix methods and least squares adjustment methods, random and systematic errors in measuring, and error propagation. Offers field applications of Radial and GPS surveying systems: static, kinematic and RTK procedures, data collection, post processing coordinate transformation, creation, and report generation. Teaches practical applications of network adjustment, control surveys, triangulation, and precision traverses with precise elevation control. Requires demonstration of field skills and techniques. Software fee of $18 applies. Lab access fee of $35 for computers applies.

SURV 3230
Construction and Route Surveys
3:3:0 Spring
* Prerequisite(s): EGDT 2400 and MATH 1060 or EGDT 1610, matriculation into the Geomatics BS degree, and University Advanced Standing

Applies principles and theories presented in prerequisite courses and moves the student to an advanced field applications level. Develops computations and practical applications covering Route and Construction surveys. Includes computer solutions and applications from plans and specifications using modern data collection and coordinate geometry (COGO) computer software. Software fee of $18 applies. Lab access fee of $35 for computers applies.

SURV 3340 (Cross-listed with: LEGL 3340)
Boundary Law
3:3:0 Fall
* Prerequisite(s): University Advanced Standing

Studies the responsibilities of the land boundary surveyor in protecting rights, title, and interest of the land; riparian and littoral rights, bona-fide rights, boundary easements and reversions, conveyances; sequential and simultaneous. Presents principles and rules of evidence. Includes monuments and monumentation, boundary locations, and procedures used to establish new boundaries and locate existing boundaries. Lab access fee of $35 for computers applies.

SURV 4340 (Cross-listed with: LEGL 4340)
Surveying Legal Principles
3:3:0 Spring
* Prerequisite(s): SURV 2360, SURV 3340, ENGL 2310, matriculation into the Geomatics BS degree, and University Advanced Standing

Focuses on researching the body of law as it applies to the practice of surveying. Covers common law associated with the Statute of Frauds, Constructive Notice, and Surveyor/Attorney interaction and roles. Discusses principles and concepts of dispute and conflict resolution as well as the specific role of the expert witness. Reviews the fact finder role of the surveyor in research/investigation techniques and sources while focusing on facts of a case and the applicable laws. Completers will work on case studies and prepare a final legal research paper. Involves tour(s) of a law library.

SURV 4500
The Surveying Practice
3:3:0 Fall
* Prerequisite(s): LEGL 3000, Department Approval, matriculation into the Geomatics BS degree, and University Advanced Standing

Examines the planning, organizing, and application of field and office practices, and develops a practical business plan including policies and procedures associated with a typical professional surveying firm providing surveying services to the public and private sector. Reviews and applies a myriad management principles and functions including: operations, financial, marketing, human resource, project, and risk management. Exposes the student to the functions of typical financial software. Explores business concepts specific to surveying; pricing, fees, bidding, proposals, contracts, and professional liabilities. Involves developing a business plan for a professional surveying firm. Lab access fee of $35 for computers applies.

SURV 451R
Geomatics Lecture Series
0.5 to 1.0 to 1.5 to 2.0
* Prerequisite(s): Department Chair Approval, matriculation into the Geomatics BS degree, and University Advanced Standing

Consists of lectures presented by guest speakers or faculty on various topics in Geomatics including but not limited to: land surveying, mapping, remote sensing, geodesy, legal issues, photogrammetry, and various new and emerging technologies. May be repeated for a maximum of 1 credit toward graduation.

SURV 455G
Global Professional Ethics and Liabilities
3:3:0 Fall
* Prerequisite(s): PHIL 2050, LEGL 3000, departmental approval, matriculation into the Geomatics BS degree, and University Advanced Standing

Teaches the code of ethics adopted by the Utah Council of Land Surveyors (UCLS). Explains meaning and attributes of professionalism along with the ethical, moral, and social responsibilities of surveyors. Integrates laws for practicing surveying with professional ethics as well as the roles of multi-culturalism and globalization. Includes model standards (international, national, and state), professional survey liability cases, safety, risks, professional client relationships, bribery, global engagement, contracts, and intellectual property. Involves lecture, readings, case studies, and other media.

SURV 481R
Geomatics Internship
1 to 8:0:5 to 40
* Prerequisite(s): Junior or Senior Standing, departmental written approval, matriculation into the Geomatics BS degree, and University Advanced Standing

Provides opportunities to apply classroom theory and principles to actual on-the-job work experience, on a paid or non-paid basis, in the field of Geomatics. Emphasizes the establishment of goals, learning objectives, and expected outcomes with their Faculty Sponsor at the beginning of the internship and/or semester. Involves the submission of a comprehensive written report at the end of the semester consisting of an evaluation of original goals and objectives and reflects on the achieved outcomes gained from the work experience. May be repeated for a maximum of 8 credits toward graduation. May be graded Credit/No Credit.

SURV 490R
Professional Topics in Geomatics
3 to 4:2:2 to 4
* Prerequisite(s): Department Chair Approval, matriculation into the Geomatics BS degree, and University Advanced Standing

Studies a chosen topic in Geomatics. The topic may vary depending on demand. May include research, experimentation, analysis, and reporting. May be taken more than once for different topics and for a maximum of 8 credits toward graduation.

SURV 492R
Geomatics Capstone
2:0:2
* Prerequisite(s): Senior Standing and Departmental Approval, matriculation into the Geomatics BS degree, and University Advanced Standing

Provides an opportunity for a senior Geomatics student to participate in a significant and current research project which will advance the field of Geomatics. Includes independent study and laboratory/field work as necessary and must be approved and supervised by an assigned faculty mentor. Culminates in the preparation of a written paper and oral presentation describing the results of the research and/or completed project to project stakeholders, interested students, faculty, administration, the professional Geomatics community, and the broader general audience. May be repeated for a total of 4 credit hours.

Utah Valley University
Course Catalog 2015-2016
Course Descriptions
731
Social Work (SW)

SW 1010 Introduction to Social Work 3:3:0 Fall, Spring, Summer
Introduces social work theory and practice. Examines the relationship between policy and practice in the context of nine major fields of social work. Considers challenges faced by today's practitioners. Explores current career opportunities in the field.

SW 2100 Human Behavior and the Social Environment I 3:3:0
* Prerequisite(s): Admission into the BSW program.

Introduces the basic knowledge, values, and skills needed for generalist social work practice. Focuses on working with individuals using the planned change process within the strengths perspective. Assists students in understanding the social and environmental conditions that negatively affect clients, and to empower clients to take steps to enhance their own well-being. Provides content on the evaluation of social work practice.

SW 2500 Understanding the Autism Spectrum 3:3:0
* Prerequisite(s): ENGL 1010 (with C or higher) or instructor approval.

Discusses autism beginning with the history of the diagnostic category and moving through contemporary issues of etiology, neurobiology, prevalence, assessment, treatment, education, policy, and community impact and inclusion. Emphasizes principles of interdisciplinary care, cultural competence, family centered approaches, and life course perspective.

SW 275R Survey of Current Topics 3:3:0
* Prerequisite(s): (ANTH 101G or PSY 1010 or SOC 1010 or SW 1010) and ENGL 1010

Provides selected topic in Social Work and will vary each semester. Approaches subject from a cross-disciplinary perspective. Requires a project demonstrating competency in the specific topic. May be repeated for nine credits toward graduation.

SW 3000 Social Work Practice I 3:3:0
* Prerequisite(s): Admission to the BSW program and University Advanced Standing

Focuses on generalist social work practice with emphasis on small groups. Uses the planned change process to assist oppressed groups within the values and ethics of the profession. Includes content on evaluation of practice.

SW 3100 Social Work Practice II 3:3:0
* Prerequisite(s): SW 3000, Admission to the BSW program, and University Advanced Standing

Focuses on generalist social work practice with emphasis on small groups. Uses the planned change process to assist oppressed groups within the values and ethics of the profession. Includes content on evaluation of practice.

SW 3200 Social Work Practice III 3:3:0
* Prerequisite(s): SW 3000, SW 3100, Admission into the BSW program, and University Advanced Standing

Explores how generalist practice relates to the various levels of practice and how it particularly relates to macro practice. Emphasizes macro issues such as community organization and development, socio-cultural interactions, legislative matters, and other areas related to policy practice. Particular attention will be given to areas of practice that involve disenfranchised groups and how to promote social justice for these groups at the macro level.

SW 3400 Human Behavior and the Social Environment II 3:3:0
* Prerequisite(s): SW 2100, Admission into the BSW program, and University Advanced Standing

Examines major social forces and institutions as they relate to and determine social policy emphasizing social welfare services in an industrialized society. Evaluates social welfare frameworks in light of the principles of social and economic justice. Identifies effect of social policy on generalist social work practice.

SW 3500 Social Welfare Policies and Services 3:3:0
* Prerequisite(s): Admission into the BSW program and University Advanced Standing

Examines major social forces and institutions as they relate to and determine social policy emphasizing social welfare services in an industrialized society. Evaluates social welfare frameworks in light of the principles of social and economic justice. Identifies effect of social policy on generalist social work practice.

SW 3510 International Social Work 3:3:0
* Prerequisite(s): ENGL 2010 or ENGL 2100 with a C or higher grade or University Advanced Standing

Examines international social work practice, including the enhancement of practice knowledge and skills in program design, implementation, and evaluation. Addresses basic resources such as food, shelter, potable water and sanitation, as well as sustainable economic development, inter-ethnic conflict, global indebtedness, ethnocentric organizational development, and empowerment/conscientization as a method of intervening in social challenges.

SW 3600 Ethics and Values in Social Work Practice 3:3:0
* Prerequisite(s): Admission into the BSW program and University Advanced Standing

Examines major social forces and institutions as they relate to and determine social policy emphasizing social welfare services in an industrialized society. Evaluates social welfare frameworks in light of the principles of social and economic justice. Identifies effect of social policy on generalist social work practice.

SW 371G Diversity Issues in Social Work Practice 3:3:0
* Prerequisite(s): Admission into the BSW program and University Advanced Standing

Examines understanding and appreciation of diverse client populations, the nature of cultural identity, group membership and differential access to resources, and strategies to combat discrimination, oppression and economic deprivation and to promote social and economic justice. Examines socio-identities including: race, ethnicity, religion, gender, social class, sexual orientation, abilities, and age. Includes discussion of oppressive and discriminatory experiences as well as resilience and strengths encountered by different groups. Explores similarities, differences, and controversies between diverse populations in the context of their personal values and professional policy and practice.
SW 3750
Child Abuse/Neglect and Domestic Violence
3:3:0 Fall, Spring
* Prerequisite(s): SW 1010 and University Advanced Standing
Reviews definitions of child abuse and neglect and other forms of domestic violence using a multidisciplinary perspective. Explores theories explaining the causes of abuse/neglect and domestic violence. Identifies indicators of abuse/neglect and aids students in making assessments and intervening in situations of abuse/neglect and domestic violence. Educates students in mandatory reporting laws and the workings of the child welfare system in efforts to intervene and prevent abuse/neglect. Addresses current policy issues pertinent to child abuse/neglect and domestic violence and identifies effective methods in which students can advocate for social change within the social and child welfare system.

SW 3810
Autism Across the Lifespan I Infants and Children
3:3:0
* Prerequisite(s): SW 2500
Examines key issues related to infants and children who are diagnosed with an autism spectrum disorder and the impact on family and communities. Emphasizes principles of interdisciplinary care, cultural competence, family centered approaches, and life course perspective. Requires a 20-hour service learning component.

SW 3820
Autism across the Lifespan II Teens and Adults
3:3:0
* Prerequisite(s): SW 2500
Examines key issues related to teens and adults diagnosed with an Autism Spectrum Disorder and the impact on family and communities. Emphasizes principles of interdisciplinary care, cultural competence, family centered approaches, and life course perspective. Requires a 20-hour service learning component.

SW 3850
Autism Assessment and Treatment
3:3:0
* Prerequisite(s): SW 2500

SW 4460
Introduction to Child Welfare II
3:3:0
* Prerequisite(s): SW 1010 and (ENGL 2010/2020 with C + or higher)
Addresses the basic effects of abuse, neglect and separation on child development and will also address the knowledge and skills required for child welfare workers to provide services related to child placement, including risk assessment, attachment, separation, loss, grief, family intervention, working with foster care givers, and reunification and reintegration services. Teaches strategies to reduce trauma and promote effective child placement.

SW 4450
Crisis Intervention
3:3:0 On Sufficient Demand
* Prerequisite(s): SW 1010 and (ENGL 2010 or ENGL 2020 with a minimum C+ grade) or instructor approval and University Advanced Standing
Introduces the student to the philosophy, knowledge, techniques, and skills of crisis intervention. Provides opportunities through projects, written assignments, role playing, and first-hand interaction with professional crisis workers by which the students may deepen their understanding of this demanding method of social work practice.

SW 4600
The DSM of Mental Disorders
3:3:0 On Sufficient Demand
* Prerequisite(s): SW 1010, PSY 3400, (ENGL 2010 or ENGL 2020 with a C+ grade) and University Advanced Standing
Provides an overview of the Diagnostic and Statistical Manual of mental disorders (DSM) based on clinical diagnosis. Teaches DSM based clinical diagnosis. Teaches DSM diagnoses including diagnostic criteria, prevalence rates, gender and cultural differences in prevalence and symptomatology, disease course, and differential diagnosis. Uses class discussions, videotapes of individuals with different DSM diagnoses, and case scenarios.

SW 4650
Autism and Applied Behavior Analysis
3:3:0
* Prerequisite(s): SW 2500, SW 3810, SW 3820, and SW 3850
Describes the scientific principles of applied behavior analysis and how they relate to autism intervention. Discusses principles of single case designs, antecedents, reinforcement, consequences, and behavior modification.

SW 4700
Case Management in Social Work Practice
3:3:0 Fall, Spring
* Prerequisite(s): SW 1010 and University Advanced Standing
Provides the conceptual foundation for providing case management services and crisis intervention to individuals in various population groups.

SW 475R
Current Topics in Social Work
3:3:0 On Sufficient Demand
* Prerequisite(s): SW 1010 and (ENGL 2010 or ENGL 2020) and University Advanced Standing
Presents selected topic in Social Work and will vary each semester. Requires a project demonstrating competency in the specific topic. May be repeated with different topics for 9 credits toward graduation. May be delivered hybrid.

SW 4800
Integrated Seminar I
1:1:0 Fall, Spring, Summer
* Prerequisite(s): SW 3000, admission to the BSW program, and University Advanced Standing
* Corequisite(s): SW 481R
Provides a generalist base for social work practice that involves an on-site, supervised field agency practicum and a weekly seminar. Assists the student to integrate classroom learning with learning that takes place in the on-site field practicum. First of two courses in field practicum sequence.

SW 481R (Cross-listed with: AUTS 481R)
Field Placement
1 to 8:0:5 to 40
* Prerequisite(s): Admission to the BSW program and University Advanced Standing.
* Corequisite(s): SW 4800 or SW 4850
Provides a generalist base for social work practice that involves an on-site, supervised field agency practicum. Assists the student to integrate classroom learning with learning that takes place in the on-site field practicum. Perform a minimum of 225 hours of supervised social work in a local agency setting. May be repeated for a maximum of 10 credits toward Graduation. May be graded credit/no credit. Course fee of $84 applies for practical experience applies.

SW 482R
Autism Seminar
1:1:0
* Prerequisite(s): SW 2500, SW 3810, SW 3820, and SW 3850
* Prerequisite(s) or Corequisite(s): SW 481R
Provides a generalist base for autism practice in a weekly seminar. Assists the student to integrate classroom learning with learning that takes place in the on-site field practicum. May be repeated for a maximum of 6 credits toward graduation.

SW 4850
Integrated Seminar II
1:1:0
* Prerequisite(s): Senior Standing in the BSW program, SW 4800 with B- or higher, and University Advanced Standing
* Corequisite(s): SW 481R
Provides a generalist base for social work practice that involves an on-site, supervised field agency practicum and a weekly seminar. Assists the student to integrate classroom learning with learning that takes place in the on-site field practicum. Provides an integrative classroom experience for students with a clinical interest currently working in related jobs or volunteer experiences in human service agencies or work sites. Second of two courses in the field practicum sequence.
Course Descriptions

SW 490R
Independent Studies
1 to 3:1 to 3:0 On Sufficient Demand
* Prerequisite(s): Instructor approval, department chair approval, and University Advanced Standing; for Behavioral Science Bachelor Degree students only
For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, oral presentation, or other options as approved by the instructor. May be repeated for a maximum of 6 credits.

Technology Management (TECH)

TECH 1000
Experiential Credit Portfolio Development and Assessment
2:2:0 Fall, Spring
For those entering the AAS Degree in Technology. Helps students develop their professional portfolio including experience, certifications, licenses, etc. Involves creating required documentation and presentation by the student and assessment of the portfolio by a committee of appropriate faculty and technology professionals to determine experiential credit granting equivalences in courses TECH 110R. Inculcates the value of continuous learning and the process of Learning how to Learn.

TECH 1010
Understanding Technology
3:3:0 Fall, Spring, Summer
Covers the principal technologies that are important and prevalent today. Explores how technology applies to, affects, and interacts with various workplaces. Develops an appreciation for how technology changes and what possible new and exciting technologies are on the horizon. May be delivered hybrid and/or online.

TECH 110R
Technical Experiential Credit
1 8:0:3 24 On Sufficient Demand
* Prerequisite(s): TECH 1000
Designed to allow students to obtain technical experiential credit through an approved portfolio. Portfolio is developed and approved in TECH 1000. Up to 16 hours may be used toward graduation.

TECH 2000
Technology and Human Life
3:3:0 Fall, Spring, Summer
Designed to acquaint students with the main technologies affecting their culture and the global community. Places special emphasis on the moral, social, economic, legal, and political consequences. Introduces students to the major biotechnologies, information technologies, robotics and manufacturing, space, and military technologies of their generation. Explores the central writings and personalities leading the analysis of technology in the 21st century. May be delivered online.

TECH 290R
Current Topics in Technology
3:3:0 Spring
Demonstrates current developments in technology fields and how they apply to business and industry processes. Prepares students to use contemporary technologies in their professions. May be repeated for a maximum of nine credits toward graduation.

TECH 3000
Introduction to Technology Management
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 1010, Sophomore Standing, and University Advanced Standing
Addresses the special characteristics of managing and leading technology dependent organizations. Covers the leading influential technologies, technology's impact on organizational structure and the policy process, strategic technological planning, future studies, leadership, global aspects of technology management, performance assessment, technology life cycles and financing, and some of the major ethical implications of managing technology dependent organizations. May be delivered online.

TECH 3010
Creativity Innovation and Change Management
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 1010, Sophomore Standing, and University Advanced Standing
Focuses on principles of creativity and innovation as they apply to technological enterprises. Covers theoretical and practical concepts of both creativity and innovation. Studies both concept and practice of structured methods of creative problem solving. May be delivered hybrid and/or online.

TECH 3020
Supervision in Technology
3:3:0 Fall, Spring
Prepares students to use contemporary technologies in their professions. May be repeated for a maximum of nine credits toward graduation.

TECH 3040
Project Management
3:3:0 Fall, Spring, Summer
* Prerequisite(s): (TECH 3000 or CMGT 3000 or IM 2100 or DGM 3220), Computer Literacy, and University Advanced Standing
Introduces project management tools that can be used to guide and manage individual and multiple projects. May be delivered hybrid and/or online.

TECH 3700
Materials Management
3:3:0 Fall, Spring
* Prerequisite(s): TECH 3000 and (ENGL 2010 or ENGL 2020) and University Advanced Standing
Involves a comprehensive approach to purchasing, raw and finished goods inventories, and determining and managing capacity and workers. Includes Just-in-time, Kanban, scheduling and emerging technologies. Assists in preparing students for national certifications. May be delivered online.

TECH 3850
Quality Assurance in Technology
3:3:0 Fall, Spring
* Prerequisite(s): [(TECH 3000 and MATH 1040) or advisor approval] and University Advanced Standing
Involves a comprehensive approach to quality management related to technical professions. Includes ISO 9000, application of 6 Sigma practices, continuous process/product improvement, best practices, statistical methods, performance measurements, management of supplier partnerships, cost of poor quality, leadership and employee involvement, quality function deployment and global quality initiatives. Assists in preparing students for the relevant professional certifications for career enhancement. May be delivered online.

TECH 4000
Reliability Engineering and Safety
3:3:0 Fall, Spring
* Prerequisite(s): TECH 3000 and (ENGL 2010 or ENGL 2020) and University Advanced Standing
Studies interrelated aspects of reliability, safety, other important risk factors, environmental concerns, and ergonomic considerations in a technological enterprise. Presents a mixture of academic study, investigation of numerous actual cases, surveys of local businesses, and discussion of current events in these areas. Studies requirements of governmental agencies. Studies communication and community interaction techniques to prevent and mitigate human error. May be delivered online.
TECH 405G  
**Global Ethical and Professional Issues in Technology**  
3:0  Fall, Spring, Summer  
* Prerequisite(s): PHIL 2050 and (TECH 4420 or CMGT 3040) and University Advanced Standing  
Examines professional and ethical issues that arise within technological organizations with a global perspective. Studies the impact of conflicting loyalties, as well as the roles of multi-culturalism and globalization. Includes review of current ethical theories and existing professional codes of conduct. Includes lecture, readings, case studies, and other media. May be delivered online. May be repeated for a maximum of 3 credits toward graduation.  

TECH 405G  
**Global Ethical and Professional Issues in Technology**  
3:0  Fall, Spring, Summer  
* Prerequisite(s): PHIL 2050 and (TECH 4420 or CMGT 3040) and University Advanced Standing  
Examines professional and ethical issues that arise within technological organizations with a global perspective. Studies the impact of conflicting loyalties, as well as the roles of multi-culturalism and globalization. Includes review of current ethical theories and existing professional codes of conduct. Includes lecture, readings, case studies, and other media. May be delivered online. May be repeated for a maximum of 3 credits toward graduation.  

TECH 4200  
**Technology Marketing and Distribution**  
3:0  Fall, Spring, Summer  
* Prerequisite(s): TECH 3000 and (ENG 2010 or ENG 2020) and University Advanced Standing  
Teaches management of marketing, forecasting, and distribution within technical fields. Focuses on market-based profit and customer satisfaction. Applies concepts to technology planning and innovation. Prepares for national distribution certifications. May be delivered online.  

TECH 4400  
**Advanced Project Management**  
3:0  Fall, Spring  
* Prerequisite(s): [ACC 3000 or (ACC 2010 and ACC 2020) or ACC 2030] and MATH 1040 or advisor approval] and University Advanced Standing  
* Prerequisite(s): [Corequisite(s): TECH 3400]  
* Prerequisite(s): Coursework(s): TECH 3000  
Presents advanced tools and techniques which build on the concepts presented in introductory project management class. Covers principles for managing multiple projects. Studies best practices for project management. Introduces the activities of Program Management, Project Portfolio Management and Strategic Project Leadership and Management. Analyzes basic cost justification techniques for making economic decisions in technical organizations. May be delivered online. Lab access fee of $35 for computers applies.  

TECH 4420  
**Organization Information Technologies**  
3:0  Fall, Spring, Summer  
* Prerequisite(s): TECH 3000, Computer Literacy, and University Advanced Standing  
Introduces students to how information, and the management of that information, can affect the structure of organizations and how they operate. Covers technical and organizational foundations of information systems along with contemporary approaches to building, managing and protecting information systems. Emphasizes how information technology affects the decision-making and policy development process. In addition, examines the ethical and legal issues raised by the capabilities of information technology. May be delivered online. Lab access fee of $35 for computers applies.  

TECH 481R  
**Internship**  
1 to 3:0:5 to 15  Fall, Spring, Summer  
* Prerequisite(s): Technology Management Department Chair Approval and University Advanced Standing  
For Technology Management bachelor degree students who do not have work experience in their technological specialty. Provides opportunities to apply classroom theory while students work as employees in a job that relates to their careers. Students communicate regularly with a School of Technology and Computing coordinator. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. 3 credits may be applied toward a Bachelor of Science Degree in Technology Management. May be graded credit/no credit.  

TECH 4820  
**Current Topics in Technology Management**  
3:0  On Sufficient Demand  
* Prerequisite(s): (Senior Status or Instructor Approval) and University Advanced Standing  
Designing to provide a review of how various industry and trade professions will be affected by new and developing technologies in the short- and mid-term future. Acquaints students with the newest technological developments in their fields. Prepares students, through research, for the changes that various technologies will bring their professions.  

TECH 489R  
**Undergraduate Research in Technology Management**  
1 to 3:0:5 to 15  Fall, Spring  
* Prerequisite(s): Department approval and University Advanced Standing  
Provides the opportunity to conduct research under the mentorship of a faculty member. Practices the theoretical knowledge gained in prior major courses. Requires the creation of a significant intellectual or creative product that is characteristic of the Technology Management discipline and worthy of communication to a broader audience. May be repeated for a maximum of 3 credits toward graduation.  

TECH 4910  
**Senior Capstone Project**  
3:0  Fall, Spring, Summer  
* Prerequisite(s): TECH 3400, TECH 3850, Senior Status, and University Advanced Standing  
For senior Technology Management majors. Provides a leadership transition from academic to applied/real-life work experience. Includes student, company liaison, and coordinator evaluation, on-site work visits, written assignments and oral presentations. Offers experience in establishing and accomplishing team objectives that improve their ability to add real value in their future employment. May be delivered online.  

TECH 497R  
**Independent Study**  
1 to 3:0:3 to 9  Fall, Spring  
* Prerequisite(s): Technology Management Department Chair Approval and University Advanced Standing  
Offers independent study as directed in reading or individual projects at the discretion and approval of the department chair. May be repeated for a maximum of 3 credits toward graduation.  

Theatre (THEA)  

THEA 1013  
**Introduction to Theatre**  
3:0  Fall, Spring, Summer  
A dynamic introductory course which examines theatre analysis, history, dramatic structure, outstanding dramatic literature, and the various roles in theatre production including the playwright, producer, director, the design team, production staff, house staff, run crew, and publicity. Utilizes lecture, film review, play reading, and live theatre attendance. May be delivered online.  

THEA 1023  
**Introduction to Film**  
3:0  Fall, Spring, Summer  
Designed to develop the analytical skills necessary for understanding the motion picture - not only as an art form, but as a tool for the statement of ideas. Explores the visual and aural elements employed by movie-makers to influence audiences. Studies context—the historical, social, political, cultural, and artistic situation which produced the film and how it reflects the world and our society. Combines lecture, screening, and demonstration with critical discussions of assigned readings and films. May be delivered online.  

THEA 1033  
**Acting I**  
3:0  Fall, Spring, Summer  
For theatre arts majors and anyone interested in developing acting skills. Covers basic acting terminology and definitions, techniques of movement, voice, and script analysis with a strong emphasis on performance ethics.
THEA 1113 Voice and Diction I 3:3:0 Fall, Spring * Prerequisite(s): THEA 1033
Provides students the opportunity to improve their vocal skills. Studies control and enhancement of the vocal mechanism. Stresses respiration, phonation, and articulation. Includes vocal exercises, oral presentations and study of the International Phonetic Alphabet (IPA) combined with lectures, films, demonstrations, and critiques.

THEA 1223 Makeup I 3:3:0 Fall, Spring Introduction to character makeup application for stage and screen with emphasis on corrective, age, and period with some stylized applications. Studies include the development of physical characterization for scripted characters. Course fee of $23 for materials applies.

THEA 1513 Stagecraft I 3:3:0 Fall, Spring * Corequisite(s): THEA 1514
Surveys all elements of theatre and film production including sets, lighting, sound, properties, and costumes. Offers experience in the construction, painting, dressing, and striking of sets and props; the hanging, focusing and gelling of lighting instruments; the preparation of sound effects; and the operation of sound and lighting control equipment. Utilizes lecture, demonstration, films, and observation of working production facilities and personnel. Course fee of $30 for equipment applies.

THEA 1514 Stagecraft I Lab 1:0:3 Fall, Spring * Prerequisite(s) or Corequisite(s): THEA 1513
Laboratory component to THEA 1513. Offers experience in the construction, painting, dressing, and striking of sets and props; the handing, focusing and gelling of lighting instruments; the preparation of sound effects; and the operation of sound and lighting control equipment.

THEA 159R Production Practicum for Stage and Screen I 1:1:2 Fall, Spring, Summer Provides the opportunity for freshmen students to earn college credit for supervised projects in production for the period up to dress rehearsal and during strike. Involves the development of a contract between the student and the assigned instructor. May be repeated for a maximum of 2 credits toward graduation.

THEA 1713 Script and Text Analysis I 3:3:0 Fall, Spring Introduces students to the analysis of storytelling-based texts across a range of media. Focuses on the application of narrative and semiotic theory to dramatic literature from various periods in theatre history. Involves lecture, discussion, script and text analysis, film viewing, and live production attendance.

THEA 2033 Acting II 3:3:0 Fall
* Prerequisite(s): THEA 1033, THEA 1113
Designed to build upon the techniques learned in THEA 1033. Emphasizes character development and application in creating a role through intense scene study of scripts in both stage and screen.

THEA 2131 Movement for the Actor I 3:3:0 Fall, Spring * Prerequisite(s): THEA 1033
Designed to help actors for both stage and screen develop the physical awareness and self discipline critical to effective performance of period style, staged combat, and the musical. Emphasizes balance, strength, postural correction, energy drives, motivation, and basic movement vocabulary.

THEA 2156 Group Voice for Theatre 3:3:0 Fall, Spring * Prerequisite(s): For theatre majors only
Provides group instruction for actors to develop technical skill and understanding of the singing voice. Requires a minimum of 3 hours of practice each week.

THEA 2200 Theatre and Drama in the Elementary School 3:3:0 Fall, Spring
Teaches students how to build bridges between play and learning by exploring how theatre and theatre games can be used to educate elementary students in the joys of theatre and the ways drama can be used to learn deeper lessons in other disciplines. Incorporates theatre, materials, and practice—including story dramatization, play writing, rehearsal techniques, storytelling, puppets, pantomime, role-play and theatre games. Fullfill requirements of the Utah State Core Curriculum in Theatre for both Secondary and Elementary levels.

THEA 2203 Costume Construction I 3:3:0 Spring
* Prerequisite(s): THEA 1513
* Corequisite(s): THEA 2204
A beginning overview of the vocabulary and basic sewing methods of theatrical costume. Familiarizes students with sewing machine and serger operation, basic sewing techniques, fabrics, simple patterning, and skills of costume construction. Course fee of $24 for materials, equipment applies.

THEA 2204 Costume Construction I Lab 1:0:3 Fall, Spring
* Prerequisite(s): THEA 1513
* Prerequisite(s) or Corequisite(s): THEA 2203
Laboratory component to THEA 2203. Provides general theatre shop experience designed to offer opportunity for the hands-on application of basic sewing methods of theatrical costume. Includes training in sewing machine and serger operation, basic sewing techniques, fabrics, simple patterning, and skills of costume construction.

THEA 2211 Theatre for Children and Youth I 3:2:3 Spring
Introduces the philosophy and practices of theatre for children and youth, including its range of uses in the classroom, on the stage, in the community, corporate world and beyond. Focuses on storytelling, puppetry, and dramatic texts for children and youth. Requires play attendance.

THEA 222R Theatre for Young Audiences Tour 3:2:3 Fall, Spring * Prerequisite(s): THEA 1013 or Instructor Approval
Provides students with opportunities to perform in touring theatre productions for elementary and secondary audiences in school settings. Includes training in professional and amateur practices in performing, directing, designing, constructing, and managing touring shows for children and youth. Repeatable for a maximum of 6 credits toward graduation.

THEA 2231 Creative Drama I 3:3:0 Fall
Provides training for children and youth in the creation of improvised drama in classroom, workshop, and community settings. Prepares students to lead drama activities in elementary and secondary schools and to use drama as a tool to teach other state core curriculum.

THEA 2231 (Cross-listed with: CINE 2311) FF Film History I 3:3:0 Fall * Prerequisite(s): THEA 1023 or ENGL 2150
Explores the development of the feature film, both in America and abroad from 1895 to 1945. Covers the evolution of motion pictures from conception as an entertainment novelty (c. 1895) to the mass-audience, commercial art form of the 1940's. Examines film as a serious historical study of a form of mass communication, which has had ethical, social, and political consequences on society. Includes lecture, screenings, and demonstrations with critical discussions of assigned readings and films.

THEA 2232 (Cross-listed with: CINE 2312) FF Film History II 3:3:0 Spring * Prerequisite(s): THEA 1023 or ENGL 2150
Explores the development of the feature film, both in America and abroad from 1940 to the Present. Emphasizes the continuing evolution of motion pictures from the height of the Studio System 1930's through to its status as one “form” of digital entertainment in 2010. Examines film as a serious historical study of a form of mass communication, which has had ethical, social, and political consequences on society. Includes lecture, screenings, and demonstrations with critical discussions of assigned readings and films. (Note: Some films screened may be considered controversial and carry an “R” rating.)
THEA 234R (Cross-listed with: CINE 234R) Special Topics in Film Studies 3:2:2 Not Offered
* Prerequisite(s): THEA 1023
Focuses upon a particular genre, director, or film movement for the benefit of theater students seeking a film emphasis and MCT and English students seeking added depth in their fields of study. Topic varies by semester. May be repeated for 3 credits toward graduation, more for interest.

THEA 2513 Introduction to Design for Stage and Screen 3:3:0 Fall, Spring
* Prerequisite(s): THEA 1513
* Corequisite(s): THEA 2514
Studies the design process associated with costumes, scenery, and lighting. Uses research, conceptual renderings, models, and drafting. Introduces perspective drawing, figure drawing, three-dimensional model building, and standard drafting practices. Course fee of $10 applies.

THEA 2514 Introduction to Design for Stage and Screen Lab 1:0:3
* Prerequisite(s): THEA 1513
* Prerequisite(s) or Corequisite(s): THEA 2513
Laboratory course to accompany THEA 2513. Teaches skills in the application of elements and principles of design in the creation of scenery, costumes, and lighting in the theatre.

THEA 2515 Rendering for Theatre 3:3:0
* Prerequisite(s): ART 1020, ART 1650
Trains theatrical design students in the advanced drawing and painting skills necessary to create detailed renderings of costumes and scenery that effectively communicate visual ideas for stage design concepts.

THEA 2517 Visual Concepts in Theatre 3:3:0
* Prerequisite(s): THEA 2513
Introduces students to the translation of scripts into visual imagery for the stage. Focuses on the processes of conception, development, and implementation of design components to the point of actual presentation.

THEA 2541 Costume History 3:3:0
Studies costume history from ancient to modern times. Focuses on the political, social, economic and aesthetic concerns of each period. Includes study of the impact of other cultures on Western costume design.

THEA 259R Production Practicum for Stage and Screen II 1:0:3 Fall, Spring, Summer
* Prerequisite(s): THEA 159R
Provides the opportunity for sophomore students to earn college credit for supervised projects in production for the period up to dress rehearsal and during strike. Involves the development of a contract between the student and the assigned instructor. May be repeated for a maximum of 2 credits toward graduation.

THEA 2711 BFA Cohort Seminar 1:1:0
* Prerequisite(s): THEA 1513, THEA 1713
Prepares BFA students for integration into the program through theatrical projects that encourage ensemble collaboration and cooperation with cohorts. Teaches critical unifying skills for future professional endeavors.

THEA 2741 Scriptwriting I 3:3:0 Fall, Spring
Introduces dramatic writing in plays and screenwriting. Covers script formatting, dramatic structure, theatre and film conventions, use of dialogue, character, and plot development. Requires writing monologues, scene treatments, a short one-act play, and a short screenplay.

THEA 281R Theatre Internship 1 to 8:0:5 to 40 Fall, Spring, Summer
* Prerequisite(s): Departmental Approval
Provides a transition from school to professional life where learned theory is applied to actual practice through meaningful on-the-job experience. May be repeated for a maximum of 4 credits toward graduation. May be graded credit/no credit.

THEA 284R Singing Technique for Actors I 1:1:0
* Prerequisite(s): Audition required
Offers private vocal instruction for theatre majors to develop skills and techniques for performance in musical theatre. Requires substantial individual practice each week and bi-monthly master class participation. May be repeated for a maximum of 3 credits toward graduation. Course lab fee of $331 for private voice lessons.

THEA 290R Independent Study 1 to 5:1 to 5:0 On Sufficient Demand
For students with individual projects. Credits given for acceptable projects in playwriting, direction, acting, design or other supervised performance, labor, or research in theatre or film. Proposals must be submitted and approved by the department or instructor prior to enrollment. May be repeated for a maximum of 3 credits toward graduation.

THEA 3033 Acting III 3:3:0
* Prerequisite(s): THEA 1033, THEA 1113, THEA 2033 and University Advanced Standing
Trains advanced students in the use of contemporary methods, theories, and practices in creation of roles. Focuses on material written and produced in late 20th and early 21st century theatre.

THEA 3110 (Cross-listed with: ENGL 3110, COMM 3110) Non-Fiction Cinema History 3:2:3 On Sufficient Demand
* Prerequisite(s): THEA 1023 and University Advanced Standing
Surveys the history of non-fiction/documentary film from 1896 to the present. Includes study of early pioneers from Flaherty's NANNON OF THE NORTH to the current trend of reality television and the popular documentaries of Michael Moore.

THEA 3111 Acting for Musical Theatre I 3:3:0 Fall
* Prerequisite(s): THEA 2033 and University Advanced Standing
Introduces the acting student to the techniques of acting, singing, and dancing for the musical, as well as looking at the history and trends of the musical. Also incorporates the art of transitioning between dialogue and song.

THEA 3112 Acting for Musical Theatre II 3:3:0 Spring
* Prerequisite(s): THEA 3111 and University Advanced Standing
Further develops and refines the performer's abilities as a singer, dancer, and actor. Links trends in musical theatre with past and present artistic choices. Explores design aspects of musical theatre and thematic integration of acting, singing, and dancing. Includes lecture, discussion, film, rehearsal, and performance.

THEA 3113 Acting for Film 3:2:3 Fall
* Prerequisite(s): (THEA 2033 or DGM 1110) and University Advanced Standing
Introduces the specialized techniques of performance, audition, and agent/actor relationships as they apply to the film and television industries.

THEA 3115 Improvisation 3:3:0
* Prerequisite(s): THEA 1113, THEA 2033, THEA 2131 and University Advanced Standing
Introduces acting students to the use of improvisational techniques. Includes advanced training in the application of objectives, tactics, relationships, and movement in the creation of improvised scenes.
THEA 3117  
Auditioning I  
3:3:0  
* Prerequisite(s): THEA 1033, THEA 2033, THEA 3115 and University Advanced Standing  
Prepares students with the specific skills to successfully audition for stage and screen roles. Includes work on objectives, relationships, emotional connection, and honest physically.

THEA 3122  
Voice and Diction II  
3:3:0 Fall, Spring  
* Prerequisite(s): THEA 1113, THEA 2033, THEA 2131, and University Advanced Standing  
Offers advanced study and application of techniques and practices for increasing vocal strength, range, and diction. Integrates organic movement, vocal exercises, and acting technique. Emphasizes work on operative word stress and articulation.

THEA 3123  
Stage Dialects  
3:3:0 Fall  
* Prerequisite(s): THEA 1113 and University Advanced Standing  
Teaches the creation of believable characters from various linguistic backgrounds. Emphasizes lilt, stress, resonance, and pronunciation of dialects as a stage tool. Utilizes the IPA - International Phonetic Alphabet. Includes multiple dialects from three broad geographical categories: American, British Isles, and Western Continental Europe.

THEA 3131  
Movement for the Actor II  
3:3:0  
* Prerequisite(s): THEA 1033, THEA 2131 and University Advanced Standing  
Trains advanced movement students in somatic techniques such as Yoga, Tai Chi, Feldenkrais, and Laban.

THEA 3133  
Stage Combat  
3:3:0 Fall  
* Prerequisite(s): THEA 2131 and University Advanced Standing  
Teaches basic principles of stage combat/choresography and safety practices. Course fee of $10 for equipment applies.

THEA 314G (Cross-listed with: COMM 314G, ENGL 314G)  
Global Cinema History  
3:2:3 On Sufficient Demand  
* Prerequisite(s): (ENGL 2150 or THEA 1023) and University Advanced Standing  
Studies the evolution of global film styles, movements, stars, and genres with a focus on international cinema chronologies outside the United States. Some films screened may be considered controversial and carry an "R" rating.

THEA 3154  
Dance for Musical Theatre I  
3:2:3  
* Prerequisite(s): THEA 2033 and University Advanced Standing  
Focuses on the academic and practical study of the history and development of Musical Theatre Dance as an art form from the late 19th century to present. Melds tap, ballet, jazz, ballroom, and ethnic dance into practical character and story based movement while exploring historic context, landmark choreographers and productions.

THEA 3155  
Dance for Musical Theatre II  
3:2:3  
* Prerequisite(s): THEA 3154, BFA Theatre Arts: Musical Theatre emphasis majors only, University Advanced Standing  
Introduces the study of musical theatre choreography. Emphasizes practical application involving a blending of various styles of dance into the creation of practical character and story-based movement.

THEA 315R  
Musical Theatre Practicum  
2:0:6 Fall, Spring  
* Prerequisite(s): Instructor approval by audition and University Advanced Standing  
Prepares the student to perform in and produce musical theatre through development of acting, singing, and dance techniques in performance showcase forum. Offers performance opportunities such as musical sketch comedy reviews, children's theatre touring productions, and small scale musicals. May be repeated for a maximum of 8 credits toward graduation. Course fee of $30 for materials, specialized clothing applies.

THEA 319R  
Performance Practicum for Stage and Screen  
1:0:3  
* Prerequisite(s): Permission of instructor and University Advanced Standing  
Provides opportunity for earning college credit for supervised performance and production assignments in UUV theatre productions from dress rehearsal through closing performance (excluding strike). Allows students to apply learned skills to productions that are currently in performance. Criteria for project completion will be negotiated with the instructor or Department Chair on an individual basis. May be repeated for a maximum of 3 credits toward graduation.

THEA 3211  
Theatre for Children and Youth II  
3:3:0 Not Offered  
* Prerequisite(s): THEA 2211 and University Advanced Standing  
Involves more in depth study of theatre for children and youth, including history and theory. Includes devised theater, theater-in-education, educational outreach, and theater for the very young.

THEA 3223  
Makeup II  
3:2:2 Spring  
* Prerequisite(s): THEA 1223, THEA 2513, and University Advanced Standing  
Teaches advanced techniques in makeup design and application, character analysis, and three-dimensional masks. Includes hair applications, prosthetic appliances, airbrush techniques, and variety characterizations. Course fee of $120 for materials applies.

THEA 3241  
Storytelling  
3:3:0 Spring  
* Prerequisite(s): (THEA 1013 or Instructor Approval) and University Advanced Standing  
Introduces techniques associated with effective storytelling practice. Focuses on the use of storytelling as a means of interpreting, generating and preserving stories as an entertaining and empowering tool. Includes performance.

THEA 3251  
Puppetry and Mask  
3:3:0 Not Offered  
* Prerequisite(s): (THEA 1013 or Instructor Approval) and University Advanced Standing  
Introduces techniques for constructing and performing with various puppets and masks. Emphasizes performance for child, adolescent, and adult audiences.

THEA 3311  
Stagecraft II  
3:3:0 Fall  
* Prerequisite(s): THEA 2033 and University Advanced Standing  
Develops intermediate skills in the various stage crafts including carpentry, property construction, lighting and sound for theatre and film. Includes further education in drafting; set and lighting principles; professional, management and safety practices. Students fulfill assigned responsibilities for UVU theatrical productions. Course Lab fee of $40 for equipment applies.

THEA 3314  
Period Styles for Theatre Design  
3:3:0 Fall  
* Prerequisite(s): THEA 2513 and University Advanced Standing  
Introduction to historical styles of architecture, painting, and dress as they influence theatrical design.

THEA 3321  
Sound Design I  
3:3:0  
* Prerequisite(s): THEA 2513 and University Advanced Standing  
Introduces students to the physics of sound. Focuses on the production of audio content, and the design and engineering of playback systems. Facilitates collaboration with other members of a theatrical design team. Requires 25 hours of technical sound support for UVU theatrical productions.
THEA 3542
Costume Construction II
3:3:0	Fall, Spring

* Prerequisite(s): THEA 2203 and University Advanced Standing

Provides more experience with sewing machine operations and advanced sewing techniques. Includes textile selection and construction skills. Focuses on specialized pattern drafting and draping. Course fee of $25 for materials, equipment applies.

THEA 3561
Stage Management I
3:3:0	Fall, Spring

* Prerequisite(s): THEA 1513 and University Advanced Standing

Introduces students to the basic processes of creating and managing a theatre production organization. Includes introductory structural organization, collaboration, strategic planning, accounting, and marketing concepts, procedures, and simulation exercises. Prepares students for upper division courses in theatre management.

THEA 3563
Art Direction for Film
3:3:0

* Prerequisite(s): THEA 3514 and University Advanced Standing

Focuses on the basics of production design and art direction, the importance of costumes, props, locations, selection, special effects, and set decoration in the visual presentation of a cinematic story.

THEA 3565
Technical Direction for the Stage
3:3:0	Spring

* Prerequisite(s): THEA 1513, THEA 2513, THEA 3574, and University Advanced Standing

Offers advanced training in the implementation of theatrical scenery, lighting, and sound concepts. Includes practical experience in the creation and striking of sets and props, the control of lighting instruments, and the preparation of sound effects. Requires application of training to UVU and other community theatrical productions.

THEA 3566
Technical Direction for the Stage Lab
1:0:3

* Prerequisite(s): THEA 1513, THEA 2513, THEA 3574, and University Advanced Standing
* Prerequisite(s) or Corequisite(s): THEA 3565

Laboratory component to THEA 3565. Provides opportunities for practical application of theatrical scenery, lighting, and sound concepts. Includes experience in the creation and striking of sets and props, the control of lighting instruments, and the preparation of sound effects. Requires application of training to UVU and other community theatrical productions.

THEA 3573
Scenic Painting
3:3:0	Spring

* Prerequisite(s): THEA 2513 and University Advanced Standing

Introduces basic approaches to painting theatrical scenery. Covers traditional scene painting techniques and the tools and paints which support those techniques. Course lab fee of $42 applies.

THEA 3574
Drafting for Theatre Design
3:3:0	Spring

* Prerequisite(s): THEA 2513 and University Advanced Standing

Introduces and trains technical theatre students in the processes of drafting for theatrical design. Focuses on attaining a basic proficiency in using the most recent computer-aided drafting software.

THEA 359R
Production Practicum for Stage and Screen III
1:0:3	Fall, Spring, Summer

* Prerequisite(s): THEA 259R and University Advanced Standing

Provides opportunity to earn college credit for managing projects in production for the period up to dress rehearsal and during strike. This includes projects in lighting, sound, costumes, props, scenery, design, stage management, running crews, house management or publicity. Involves the development of a contract between the student and the assigned instructor. May be repeated for a maximum of 2 credits toward graduation.

THEA 3611
Directing Actors for the Stage I
3:3:0	Fall, Spring

* Prerequisite(s): THEA 1713, THEA 1033, and University Advanced Standing

Introduces basic directing techniques utilized in casting and rehearsing actors for stage and screen performance. Places emphasis on achieving honest and believable performances in the intimate style of camera acting, as well as the highly physical acting style of the stage. Includes studies in script structure, visualization, movement, pace and rhythm, gesture, casting techniques, and rehearsal techniques.

THEA 3612
Directing Actors for the Stage II
3:3:0	Spring

* Prerequisite(s): THEA 3611 and University Advanced Standing

Builds upon concepts covered in Directing I. Includes class workshops and demonstrations followed by class/instructor critique. Requires completion and presentation of a director's book. Culminates in public presentation of a one-act play.

THEA 3614
Directing Actors for the Screen
3:3:0	Spring

* Prerequisite(s): (THEA 3611 or Instructor Approval) and University Advanced Standing

Builds upon concepts covered in Directing Actors. Includes class workshops and demonstrations followed by class/instructor critique. Requires completion and presentation of a director's book. Culminates in public presentation of a short film. For Digital Media Majors and Theatre Majors (only with instructor approval).

THEA 3625
Fundraising for the Arts
3:3:0	Spring

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Introduces the development process, cultivating donors, and raising money through donations, sponsorships, and grants to support nonprofit arts organizations.

THEA 3711
Script and Text Analysis II
3:3:0

* Prerequisite(s): THEA 1713 and University Advanced Standing

Focuses on the practical application of dramatic, narrative, semiotic, and developmental theory to the practice of theatrical artists, educators, and dramaturgs.

THEA 3721
Theatre History and Literature I
3:3:0	Fall

* Prerequisite(s): THEA 1013, THEA 1713, (ENGL 2010 or ENGL 2020), and University Advanced Standing

Examines the history of the theatre from its earliest origins through the Renaissance. Emphasizes theatre practice in its social, political and economic contexts. Introduces the theory and skills necessary for writing analytically about the theatre.

THEA 3722
Theatre History and Literature II
3:3:0	Spring

* Prerequisite(s): THEA 3721 and University Advanced Standing

Examines the history of the theatre and its associated literature and artists from the Restoration to the present time. Focuses on historical theatre practice in its social, political and economic contexts. Introduces the theory and skills necessary for writing performance reviews and extended research papers in theatre.

THEA 3725
Musical Theatre History
3:3:0	Spring

* Prerequisite(s): THEA 1713 and University Advanced Standing

Examines the development of musical theatre from the 1700s through present day, focusing on how politics, cultural trends, and technology have changed the art form.

THEA 3731
Dramaturgy
3:3:0	Spring

* Prerequisite(s): THEA 1713

Introduces students to the practice of production research and play outreach. Provides grounding in theory and analysis to develop skills in the discipline. Aimed at students in multiple interest areas such as performance, design and administration.
THEA 3741  
Script Writing II  
3:3:0  Spring  
* Prerequisite(s): THEA 2741 and University Advanced Standing  
Builds and enlarges on the specific writing craft elements of plot, character, and theme introduced in prior writing classes. Examines plot structures in one-act plays and short films including documentaries. Involves students in identifying and strengthening weaknesses or challenges in their own as well as fellow students' original scripts. Includes active class discussions, readings, written and oral presentations, research and final projects of a one-act play or short film from 30 to 60 minutes in length.

THEA 374R  
New Script Workshop  
3:2:3  Spring  
* Prerequisite(s): THEA 1033 or THEA 2741 or THEA 3611  
Acts as a reading, performance, discussion and improvisation lab for scriptwriter's creative works. Involves students in the process of polishing, refining, and brainstorming dramatic works. Supports original student scripts with the ultimate goal of production. Integrates the work of writers, directors and actors into a collaborative effort. Includes active class discussions, readings, improvisations, written and oral presentations and critiques, research and completion of a project. May be repeated for a maximum of 6 credits toward graduation. Course fee of $15 for materials applies.

THEA 4115  
Acting Styles  
3:3:0  Spring  
* Prerequisite(s): THEA 2033, THEA 3123, THEA 3133, THEA 3772, and University Advanced Standing  
Includes advanced preparation for performance of classical texts. Emphasizes voice, speech, movement, and character development. Covers Greek and Roman acting styles, Commedia dell'Arte and 17th Century French Neoclassic styles, Shakespearean Tragedy and Comedy, Comedy of Manners, and 19th Century Romanticism and Melodrama. Also includes a brief introduction to Modern and Post-modern acting styles.

THEA 4117  
Auditioning II  
3:3:0  Spring  
* Prerequisite(s): THEA 3117, THEA 4115, and University Advanced Standing  
Teaches advanced skills and methods involved in the audition process for stage and screen roles. Focuses on developing resumes, interview skills, and preparing a wide range of audition pieces.

THEA 4119  
Senior Showcase and Career Management  
3:3:0  Spring  
* Prerequisite(s): Senior Standing; THEA 4117, BFA Theatre Arts: Acting emphasis or Musical Theatre emphasis; University Advanced Standing  
Performance workshop course that allows BFA Theatre Arts: Acting and Musical Theater emphasis seniors to collaborate with a director to create a showcase of each student actor's performance for promotional purposes. Teaches key skills in career and personal financial management related to the acting profession.

THEA 4118  
Voice and Speech  
3:3:0  Spring  
* Prerequisite(s): THEA 3122 and University Advanced Standing  
Explores the connection of voice and speech to other aspects of the acting process.

THEA 4122  
Vocal Approach to the Classics  
3:3:0  Spring  
* Prerequisite(s): (THEA 1113 or THEA 3122) and University Advanced Standing  
Increases the actor's command of tone, rhythm, pacing, and diction to fulfill the demands of classical acting. Involves rigorous textual analysis of the verse and prose of classical texts followed by interpretive exercises in both vocalization and physicality.

THEA 414R (Cross-listed with: ENGL 414R)  
Special Topics in Cinema History  
3:2:3  On Sufficient Demand  
* Prerequisite(s): THEA 1023 and University Advanced Standing  
Focuses study on a specific U.S. or International period or movement. Representative topics may include German Expressionism, Italian Neorealism, New Hollywood Cinema, and etc. May be repeated for a maximum of 9 credits toward graduation. Some films screened may carry an "R" rating.

THEA 416R (Cross-listed with: ENGL 416R, CINE 416R)  
Special Topics in Film Studies  
3:3:0  On Sufficient Demand  
* Prerequisite(s): (ENGL 2150 or CINE 2150 or THEA 1023) and University Advanced Standing  
Covers cinema directors, genre, theory, and social change on a rotating basis. Explains course focus, defines terminology involved, then studies evolution and/or specific texts or contexts, and considers theoretical discourse. May be repeated for a maximum of 9 credits toward graduation. Some films screened may carry an "R" rating. Course fee of $40 for support applies.

THEA 4200  
Theatre and Drama in the Secondary School  
3:3:0  Fall  
* Prerequisite(s): EDSC 3000, EDSC 4550, matriculation in to a Secondary Education Program, and University Advanced Standing  
For theatre majors interested in teaching theatre arts at the secondary and college levels. Introduces methodologies, strategies, and philosophies of theatre pedagogy based upon current research and practices. Emphasizes lesson plan writing using the Utah State Secondary Theatre Core Curriculum and the National Committee for Standards in the Arts. Integrates theory and practice through lecture, discussion, writing, activities, and classroom teaching experiences in the college and public school settings.

THEA 4531  
Lighting Design I  
3:3:0  Fall  
* Prerequisite(s): THEA 3514 and University Advanced Standing  
* Corequisite(s): THEA 4534  
Focuses on the designing and practical application of theatrical lighting and sound. Includes laboratory work on UVU theatre productions. Course Tool fee of $20 for materials applies.

THEA 4532  
Lighting Design II  
3:3:0  Spring  
* Prerequisite(s): THEA 4531 and University Advanced Standing  
Explores and applies elements of design as they relate to lighting for theatre, dance and film from design process conception to final paperwork. Requires work on UVU productions as well as individual student projects.

THEA 4534  
Lighting Design I Lab  
1:0:3  
* Prerequisite(s): THEA 3514 and University Advanced Standing  
* Prerequisite(s) or Corequisite(s): THEA 4531  
Laboratory component to THEA 4531. Allows students to implement theatrical lighting and sound design plans. Includes laboratory work on UVU theatre productions.

THEA 4535  
Multimedia Design for Stage  
3:3:0  
* Prerequisite(s): THEA 1513, THEA 2523, THEA 4531 and University Advanced Standing  
Introduces the language, history, and technology of digital media as it applies to the theatre. Focuses on developing skills to conceive, create, and implement digital media designs for the stage.

THEA 4541  
Costume Design I  
3:3:0  Fall  
* Prerequisite(s): THEA 3542, THEA 3514, and University Advanced Standing  
* Corequisite(s): THEA 4544  
Introduces theories and fundamentals of costume design with practical application through research and rendering. Provides an overview of costume history and period research. Emphasizes conceptual ideas based in script and director's concept. Course lab fee of $19 applies.

THEA 4542  
Costume Design II  
3:3:0  Spring  
* Prerequisite(s): THEA 4541 and University Advanced Standing  
Develops further the theories of costume design and provides more experience with practical application through research and rendering. Emphasizes advanced conceptual ideas based in script and director's concept. Encourages organization of a professional portfolio.

THEA 4543  
Costume Construction III  
3:3:0  
* Prerequisite(s): THEA 2203, THEA 3542, and University Advanced Standing  
Exposes students to the most advanced methods of tailored costume construction. Focuses on practical application of these techniques in the creation of fine couture.
THEA 4571
Scenic Design I
3:3:0 Fall
* Prerequisite(s): THEA 3514 and University Advanced Standing
* Corequisite(s): THEA 4572
Introduces the design process for scenery with an emphasis on layout, model making, and painting. Includes a focus on design for University Theatre Arts productions and other professional theatre productions.

THEA 4572
Scenic Design II
3:3:0 Spring
* Prerequisite(s): THEA 4571 and University Advanced Standing
Focuses on techniques and skills in construction and execution of scenic elements, including blocking, lighting, and design integration for University Theatre Arts productions.

THEA 457R
Practical Design
1 to 3:0:3 to 9 Fall, Spring
* Prerequisite(s): Instructor Approval and University Advanced Standing
Involves the practical application of design skills in creating stage sets for University Theatre Arts productions or for community and regional theater companies. Requires approval by the appropriate theater faculty. May be repeated for a maximum of 3 credits toward graduation.

THEA 458R
Special Topics in Theatre
1 to 3:1 to 3 On Sufficient Demand
* Prerequisite(s): (THEA 1013 and Instructor Approval) or THEA 1713
Provides in-depth study of performance or academic topics such as theatrical artists, movements, theories, genres, and social changes. Involves delineation of course focus, defines terminologies involved, then studies evolution and/or specific texts or contexts and considers theoretical discourse. May be repeated for a maximum of 12 credits toward graduation.

THEA 4621
Theatre Administration
3:3:0 Spring
* Prerequisite(s): ACC 3000, MKTG 3600, and University Advanced Standing
Introduces advanced concepts in theatre management. Includes an overview of the theatre industry and discussions of theatre organization structures, relevant personnel, and governance for commercial New York theatre, stock and resident theatre, and college theatre and community theatre. Teaches how to locate and secure rights to production and how to work with theatre unions. Includes concepts in audience development techniques. Also includes career discussion of career opportunities in theatre management/entrepreneurship. Utilizes lecture, discussion, and real-world simulation exercises.

THEA 4741
Scriptwriting III
3:2:3 Fall
* Prerequisite(s): THEA 2741 and University Advanced Standing
Extends student dramatic writing skills by creating, rewriting, and polishing a full-length film or play. Focuses on choice of material for specific audiences as well as the specific issues of adaptation of material from an already published source. Emphasizes the processes of selection, securing legal rights, adaptation management imperative to the success of a venture. Includes active class discussions, readings, written and oral presentations, research and final readings of students completed projects.

THEA 475R
Special Projects in Dramatic Writing
2 to 9:1:4 to 12 On Sufficient Demand
* Prerequisite(s): THEA 4741 and University Advanced Standing
Offers upper-division directed study with professional/academic supervision to motivated students for writing projects such as commissioned or speculative scripted and/or dramatic works, i.e., musicals, one-man shows, guerrilla theatre, mimes, short or full-length films, documentaries, television shows, sitcoms, movies-of-the-week and other forms not covered by current classes. Allows for a semesters of writing/re-writing and/or critique/development and possible workshop presentation. May be repeated for a maximum of 9 credits toward graduation.

THEA 481R
Theatre Internship
1 to 8:0:5 to 40 Fall, Spring, Summer
* Prerequisite(s): Departmental Approval and University Advanced Standing
Provides a transition from school to professional life where learned theory is applied to actual practice through meaningful on-the-job experience. Repealtable for a maximum of 4 credits toward graduation. May be graded credit/no credit.

THEA 484R
Singing Techniques for Actors II
1:1:0
* Prerequisite(s): THEA 284R, Instructor Approval, and University Advanced Standing
Offers private vocal instruction for upper division theatre majors to continue develop skills and techniques for performance in musical theatre. Requires bimonthly master class participation and substantial individual practice. May be repeated for a maximum of 4 credits toward graduation. Course Lab fee of $331 for private voice lessons applies.

THEA 490R
Independent Study
1 to 3:0:5 to 15 On Sufficient Demand
* Prerequisite(s): University Advanced Standing
Provides independent study as directed in reading and individual projects at the discretion and approval of the Dean and/or Department Chair. May be repeated for a maximum of 9 credits toward graduation.

THEA 497R
Professional Topics
1:1:0 On Sufficient Demand
* Prerequisite(s): Junior Status Theatre Major, Department Approval, and University Advanced Standing
For those intending to enter professional theatre. Includes, but not limited to, the following topics: literature, research, analysis, design, management or performance aspects of theatre and the performing arts. May be repeated for a maximum of 3 credits toward graduation.

THEA 4981
Portfolio
1:1:0 Fall
* Prerequisite(s): University Advanced Standing
Features development of student portfolio for the areas of performance, design, management, directing, script writing, and performance. Includes interview skills and website development. Emphasizes placement in the theatrical job market or graduate school placement.
THEA 4993
Senior Project
3:3:0
Fall, Spring
* Prerequisite(s): THEA 3722, Senior Status, and University Advanced Standing
Provides credit for independent projects and research of advanced nature in the area of Theatre Arts under faculty supervision. Requires an area of study to be designated.

University Studies (UVST)

UVST 289R
Undergraduate Research
1:1:0
Fall
* Prerequisite(s): Department Approval
Utilizes Phi Theta Kappa’s theme from their “Honors in Action” program as a vehicle to introduce undergraduates to research. Requires students to write a literature review and to present their findings. Requires students to be a member of Phi Theta Kappa. May be repeated for a maximum of 4 credits toward graduation.

UVST 290R
Community Engagement and Applied Service Learning
1:1:0
Spring
* Prerequisite(s): UVST 289R or Department Approval
Utilizes Phi Theta Kappa’s theme from their “Honors in Action” program as a vehicle to introduce undergraduates to service learning. Requires students to plan and implement a service project. May be repeated for a maximum of 4 credits toward graduation.

UVST 3110
Theory and Practice of Tutoring Writing
3:3:0
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
Teaches investigative theories, methods, practices and processes of tutoring writing. Has students practice tutoring as a process, actively participating in tutorial sessions and developing tutees ability to do the same. Teaches students to read scholarship from the field of writing center studies that will give them an awareness of the concepts of professional and intellectual tutoring. Requires students to compose several responses to writing center theory, conduct numerous observations of tutorials, participate in tutorials, and ultimately compose an individual philosophy of tutoring.

UVST 481R
Internship
1 to 8:0:5 to 40
* Prerequisite(s): University Advanced Standing and Departmental Approval
Increases students’ knowledge and skills in personal or career-related areas while synthesizing previous and new learning experiences. Final project involves reflection and demonstration of learning outcome achievement. For BA/BS University Studies majors, requires a project planned with and evaluated by a faculty mentor from an academic discipline closely related to the emphasis for the degree. Repeatable for a maximum of 16 credits toward graduation. May be graded credit/no credit.

UVST 4930
Capstone
2:2:0
* Prerequisite(s): Matriculation into the BA/BS University Studies
For UVST BA/BS students in their last semester. Involves reflection on learning, demonstration of the achievement of stated learning outcomes, and advanced development of writing and communication skills. Includes a research/writing project or the creation of a professional portfolio to display knowledge and abilities. Culminates with an oral presentation.

Zoology (ZOOL)

ZOOL 1090
Introduction to Human Anatomy and Physiology
3:3:0
Fall, Spring, Summer
* Prerequisite(s): BIOL 1010 or BIOL 1610
Presents a basic introduction to the sciences of anatomy and physiology. Covers the basic structure and function of the human body at the cellular, tissue, organ, and system levels. Provides a foundation of particular value for pre-nursing students who wish to have a preview of their required life science courses.

ZOOL 2320
Human Anatomy
3:3:0
Fall, Spring, Summer
* Prerequisite(s): (BIOL 1010 or BIOL 1610) and ENGL 1010 with a minimum of C- or written permission of the Anatomy program coordinator
* Corequisite(s): ZOOL 2325
Studies, in-depth, the anatomy of the human body. Covers the structure and some functions at the cellular, tissue, organ, and system levels. Emphasizes the names, locations, and functions of body components. Involves problem solving and analytical thinking. Requires co-requisite weekly laboratory study of human cadavers, models, and specimens.

ZOOL 2325
Human Anatomy Laboratory
1:0:3
Fall, Spring, Summer
* Corequisite(s): ZOOL 2320
Studies, in-depth, the anatomy of the human body. Covers the structure and some functions at the cellular, tissue, organ, and system levels. Emphasizes the names, locations, and functions of body components. Involves problem solving and analytical thinking. Covers the same general material as ZOOL 2320 and is a weekly laboratory study of human cadavers, models, and specimens. Course Lab fee of $30 applies.

ZOOL 232H
Human Anatomy
3:3:0
Fall, Spring
* Prerequisite(s): BIOL 1010 or BIOL 1610; ENGL 1010 or written permission of the Anatomy program coordinator
* Corequisite(s): ZOOL 232H
For students who intend to pursue careers in the biomedical sciences; especially pre-nursing, pre-med, pre-dent, and pre-vet students. Emphasizes the role and value of anatomical knowledge in health and disease. Covers the same general material as ZOOL 232H and is a weekly laboratory study of human cadavers, models, and specimens. Course Lab fee of $30 applies.

ZOOL 232L
Human Anatomy Honors Laboratory
1:0:3
Fall, Spring
* Prerequisite(s): BIOL 1010 or BIOL 1610; ENGL 1010 or written permission of the Anatomy program coordinator
* Corequisite(s): ZOOL 232L
Utilizes Phi Theta Kappa’s theme from their “Honors in Action” program as a vehicle to introduce undergraduates to the human body at the chemical, cellular, and pre-vet students. Emphasizes the role and value of anatomical knowledge in health and disease. Covers the same general material as ZOOL 232L and is a weekly laboratory study of human cadavers, models, and specimens. Course Lab fee of $30 applies.

ZOOL 2420
Human Physiology
3:3:0
Fall, Spring, Summer
* Prerequisite(s): (BIOL 1010 or BIOL 1610 with a minimum grade of C-) and CHEM 1110 with a minimum grade of C-
* Corequisite(s): ZOOL 2425
Studies the functions of the human body at the chemical, cellular, and pre-vet students. Emphasizes the role and value of anatomical knowledge in health and disease. Covers the same general material as ZOOL 2420 and is a weekly laboratory study of human cadavers, models, and specimens. Course Lab fee of $24 applies.

ZOOL 2425
Human Physiology Laboratory
1:0:3
Fall, Spring, Summer
* Prerequisite(s): (BIOL 1010 or BIOL 1610) and CHEM 1110
* Corequisite(s): ZOOL 2425
Studies the functions of the human body at the chemical, cellular, and pre-vet students. Emphasizes the role and value of anatomical knowledge in health and disease. Covers the same general material as ZOOL 2425 and is a weekly laboratory study of human cadavers, models, and specimens. Course Lab fee of $24 applies.
**ZOOL 242H Human Physiology**
3:3:0 On Sufficient Demand
* Prerequisite(s): BIOL 1010 (or BIOL 1610) with a minimum grade of C- and CHEM 1110 with a minimum grade of C-, written permission of the physiology program coordinator
* Corequisite(s): ZOOL 242L

Studies the functions of the human body at the chemical, cellular, organ, and system levels. Explains control mechanisms involved in homeostasis and stimulus/response pathways. Involves problem solving and analytical thinking. Includes weekly laboratory. Requires a term paper, project, or presentation.

**ZOOL 242L Human Physiology Honors Laboratory**
1:0:3 On Sufficient Demand
* Prerequisite(s): BIOL 1010 (or BIOL 1610), CHEM 1110, written permission of the physiology program coordinator.
* Corequisite(s): ZOOL 242H

Studies the functions of the human body at the chemical, cellular, organ, and system levels. Explains control mechanisms involved in homeostasis and stimulus/response pathways. Involves problem solving and analytical thinking. Includes weekly laboratory. Course Lab fee of $26 applies.

**ZOOL 3080 Pre-Dental Orientation**
3:2:2 Not Offered
* Prerequisite(s): Junior Standing and University Advanced Standing

Designed for students who plan to apply for admission to dental schools. Basic course designed to introduce students to the art, science, and practice of dentistry. Subjects include dental terminology, tooth morphology, dental materials, dental school application and curriculum and the professional career. Includes weekly laboratory. Will not count toward the departmental upper-division elective requirement. Course Lab fee of $40 applies.

**ZOOL 3100 Vertebrate Zoology**
3:3:0 Spring, Summer
* Prerequisite(s): (BIOL 1010 or BIOL 1620) with a C- or higher and University Advanced Standing
* Corequisite(s): ZOOL 3105

Designed for intended Biology or Zoology majors who desire a broad introduction to the vertebrates and a greater understanding of their unique structure, distribution and the importance of these organisms in the present and past history of the Earth. Covers the evolutionary development of the vertebrates pertaining to major skeletal and physiological adaptations. The approach is also ecological as to vertebrate habitat requirements, their distribution, and community roles. Includes weekly laboratory. Course Lab fee of $26 applies.

**ZOOL 3105 Vertebrate Zoology Laboratory**
1:0:2 Spring, Summer
* Prerequisite(s): University Advanced Standing
* Corequisite(s): ZOOL 3100

Laboratory portion of the course, which provides students with hands-on experience with vertebrates. Course Lab fee of $26 applies.

**ZOOL 3200 Invertebrate Zoology**
4:3:2 Fall
* Prerequisite(s): BIOL 1620 with a C- or higher and University Advanced Standing

Intended for Biology Department majors. Covers the anatomy, physiology, systematics, evolution and ecology of invertebrate animals. Includes weekly laboratory. Course Lab fee of $25 applies.

**ZOOL 3300 Herpetology**
3:2:2 On Sufficient Demand
* Prerequisite(s): BIOL 1610, BIOL 1620, and University Advanced Standing

Covers the evolution, ecology, and diversity of reptiles and amphibians. Includes active class discussions, oral presentations. Emphasizes native Utah herpetofauna. Includes weekly laboratory and required field trips. Course Lab fee of $40 for transportation, support, and lab applies.

**ZOOL 3430 Entomology**
3:3:0 On Sufficient Demand
* Prerequisite(s): BIOL 1620 and BIOL 1625 with a minimum grade of C- in each, and University Advanced Standing
* Corequisite(s): ZOOL 3435

An introduction to the study of insects, including insect diversity and classification, anatomy and physiology, relationships to other animals and plants, behavior, and ecology. Also includes the application of the study of insects to pest management, environmental assessment, and forensic investigations.

**ZOOL 3435 Entomology Laboratory**
1:0:2 On Sufficient Demand
* Prerequisite(s): University Advanced Standing
* Corequisite(s): ZOOL 3430

Laboratory to accompany ZOOL 3430. Will examine collection, preservation, and identification of insects. An individual reference collection is required of each student.

**ZOOL 3500 Mammalogy**
3:3:0 Fall
* Prerequisite(s): BIOL 1620 with a minimum grade of C- and University Advanced Standing; ZOOL 3100 and ZOOL 3105 strongly recommended
* Corequisite(s): ZOOL 3505

Explores the taxonomy, morphology, behavior, ecology, evolution, development, and conservation of mammals. Includes three weekly lectures and a weekly laboratory.

**ZOOL 3505 Mammalogy Laboratory**
1:0:2 Fall
* Prerequisite(s): University Advanced Standing
* Corequisite(s): ZOOL 3500

Explores the taxonomy, morphology, behavior, ecology, evolution, development, and conservation of mammals. Includes three weekly lectures and a weekly laboratory. Course Lab fee of $56 for transportation, lab applies.

**ZOOL 3700 (Cross-listed with: EXSC 3700) Exercise Physiology**
3:3:0 Fall, Spring, Summer
* Prerequisite(s): ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), ZOOL 2420 (or 242H), ZOOL 2425 (or 242L), and Pre or Co-requisite EXSC 2700 all with a C- or higher and MATH 1050. PETE Majors: ZOOL 1090 and Pre or Co-requisite PETE 2700 both with a C- or higher and Math 1050. University Advanced Standing

Studies acute and chronic physiological responses to exercise, as well as nutritional and environmental effects on these responses. Requires separate weekly laboratory.

**ZOOL 3705 (Cross-listed with: EXSC 3705) Exercise Physiology Laboratory**
1:0:3 Fall, Spring, Summer
* Prerequisite(s): University Advanced Standing
* Corequisite(s): ZOOL 3700

Studies acute and chronic physiological responses to exercise, as well as nutritional and environmental effects on these responses. Provides a hands-on approach where students will experience the physiological responses to different stressors in the lab setting. Covers similar material being discussed simultaneously in class. Course Lab fee of $28 for materials applies.

**ZOOL 4000 Animal Behavior**
3:3:0 Spring
* Prerequisite(s): BIOL 1620 and University Advanced Standing

Examines the biological basis of animal behavior with emphasis on the underlying mechanisms and evolutionary causes of behavior. Covers first the proximate causes of behavior and then the ultimate or evolutionary causes of behavior. Specific topics include the genetic basis of behavior, perceptual and effectual systems, ethology, neurophysiology, learning, animal communication, sexual behavior, and social systems.

**ZOOL 4080 Dental Observation**
3:3:0 Not Offered
* Prerequisite(s): ZOOL 3080, Departmental Approval, and University Advanced Standing

Offers clinical experience credit for students who plan to apply for admission to dental schools (arranged by student with local dentist and through Departmental Advisor). Includes weekly chair-side observation with a local dentist and performance of laboratory procedures as approved by the dentist. Requires a daily journal and paper summarizing the experience. Will not count toward the departmental upper-division elective requirement.

**ZOOL 4100 Parasitology**
4:3:2 Not Offered
* Prerequisite(s): (BIOL 1620 or MICR 2060 or BIOL 1010) with a C- or higher and University Advanced Standing

Introduces the study of parasites. Emphasizes the biology of principal groups of parasites affecting humans and livestock, including their medical and economic significance. Laboratory experience. Includes identification of parasites. Includes weekly laboratory.
Course Descriptions

ZOOL 4300
Histology
4:3:2 Spring
* Prerequisite(s): [(ZOOL 2320 or ZOOL 232H) with a C- or higher or written instructor approval] and University Advanced Standing

For pre-professional students pursuing biomedical careers and Biology majors with a particular interest in vertebrate structure and function. Studies the microscopic structure of the body at the cellular, tissue, and organ levels. Emphasizes physical and functional relationships of various tissues in the organs of the body. Includes weekly laboratory. Course Lab fee of $35 applies.

ZOOL 4400
Pathophysiology
4:4:0 Fall, Spring
* Prerequisite(s): ZOOL 2320, ZOOL 2420, and MICR 2060 each with a minimum grade C-, and University Advanced Standing

For Biology majors with an emphasis in human physiology, pre-professional majors, and nursing students. Studies pathophysiological etiologies and mechanisms that cause disease and examines physiological adaptations and dysfunction of organs and organ systems in a disease state.

ZOOL 4500
Comparative Vertebrate Zoology
4:3:3
* Prerequisite(s): [(BIOL 1010 or BIOL 1610) or (ZOOL 1090 or ZOOL 2320)], ENGL 1010 with a grade of C- or higher, and University Advanced Standing

Studies the structure and function of vertebrates at the cellular, tissue, organ and systems levels. Emphasizes developmental and evolutionary comparative aspects of mammalian, avian, reptilian, amphibian, and piscian organs and systems. Includes weekly laboratory. Course Lab fee of $24 applies.

ZOOL 4600
Ornithology
4:3:2 On Sufficient Demand
* Prerequisite(s): BIOL 1620 and University Advanced Standing; ZOOL 3100 and ZOOL 3105 highly recommended

Provides an in-depth study of avian evolution, systematics, developmental anatomy (wings, beaks, feathers), physiology, and social and reproductive behavior. Emphasizes an evolutionary and adaptive theme to the study of birds. Includes lectures, laboratories and field trips. Course Lab fee of $41 for transportation, lab applies.

ZOOL 4700
Advanced Anatomy
4:3:3 Fall, Spring
* Prerequisite(s): ZOOL 2320 with a minimum grade of C- and University Advanced Standing

For students interested in biomedical science careers or with a special interest in anatomy. Covers principles and techniques of anatomical investigation and specimen preparation. Provides supervised experience in human cadaver dissection, anatomic interpretation of radiographs, craniofacial, and palpation of the body. A regional dissection approach will be used in the lab. Requires problem solving and analytical thinking. Includes the theory and basic principles of various forms of diagnostic imaging, light and electron microscopy, skeletal preparation, and injection/maceration techniques. Includes weekly laboratory. Course Lab fee of $13 applies.

ZOOL 4750
Human Physiology A Cell Biology Approach
4:3:3 Not Offered
* Prerequisite(s): BIOL 3400 and University Advanced Standing

Addresses physiological principles and functions of the human body systems at the molecular level. Emphasizes cell signal transduction involved in the body maintaining homeostasis. Gives special attention to nervous, muscular, cardiovascular, urinary and respiratory systems. Students will be required to use problem solving and analytical thinking skills to be successful in the class. Includes weekly laboratory. Course Lab fee of $25 applies.

ZOOL 4780
Neuroscience
4:4:0 Fall
* Prerequisite(s): ZOOL 2420 with a C- or higher and University Advanced Standing

Focuses on neurobiology and neuroscience, covering aspects of molecular and cell biology, physiology, pharmacology, anatomy and the interplay of these and other disciplines in our understanding of the structure and function of the nervous system. Topics to be covered include neuroanatomy and developmental neurobiology, electrophysiology and membrane specializations related to signal propagation and signal transmission, neurotransmitter function and neuropharmacology, structure and function of simple neuronal circuits and complex neural networks and the plasticity of the nervous system, among others. Incorporates discussion of journal articles related to the latest advances in neuroscience. Requires students write a paper on a neuroscience topic of interest to them.
Graduate Studies

As a regional state university, Utah Valley University provides quality academic learning opportunities through programs at the graduate levels. For information on these programs, contact the following individuals:

Office of Graduate Studies

- **James A. Bailey**
  - Office: WB 117
  - Telephone: 801-863-6493
  - E-mail: baileyja@uvu.edu

- **Administrative Support**: Shaunna Reher
  - Office: BA 216
  - Telephone: 801-863-7348
  - E-mail: graduate_studies@uvu.edu
  - Fax: 801-863-6815

Graduate Coordinators

- **Graduate Certificate in Cyber Security**: Robert Jorgensen
  - Office: CS 636
  - Telephone: 801.863.5282
  - E-mail: Robert.Jorgensen@uvu.edu

- **Graduate Certificate in Regulatory Affairs for Life Sciences**: Virginia Bayer
  - Office: SB 243e
  - Telephone: 801.863.8605
  - E-mail: bayervi@uvu.edu

- **Master of Business Administration**: Bill Neal
  - Office: WB 127
  - Telephone: 801.863.6147
  - E-mail: william.neal@uvu.edu

- **Master of Education**: Mary Sowder
  - Office: ME 116c
  - Telephone: 801.863.6723
  - E-mail: Mary.Sowder@uvu.edu

- **Master of Science in Nursing**: Gaya Carlton
  - Office: HP 209
  - Telephone: 801-863-8195
  - E-mail: Gaya.Carlton@uvu.edu

Nursing Graduate Studies

**College of Science & Health**

- **Dean**: Daniel Fairbanks
  - Office: SB 241
  - Telephone: 801-863-6441
  - Email: daniel.fairbanks@uvu.edu

**Master of Science in Nursing**

- **Department Chair**: Dale Maughan
  - Office: HP 203x
  - Telephone: 801-863-7411
  - Email: dale.maughan@uvu.edu

- **Coordinator**: Gaya Carlton
  - Office: HP 209
  - Telephone: 801-863-8195
  - Email: gaya.carlton@uvu.edu
Graduate Studies

- **Advisor:** Kathy Hafen
- **Office:** HP 203a
- **Telephone:** 801-883-6317
- **Email:** Kathy.hafen@uvu.edu

Accreditation

The Master of Science in Nursing program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, GA, 30326.

Program Description

The Master of Science in Nursing program prepares post-baccalaureate nursing students for advanced practice roles as nurse educators in academic settings and/or as clinical nurse educators in healthcare institutions. The program includes core courses essential to master-level nursing programs as well as courses designed to prepare nurses to assume roles as academic nurse educators and/or as clinical nurse educators. Program content focuses on: theoretical foundations of nursing education and leadership; tests and measurements of learning outcomes; curriculum development, implementation and evaluation; and academic and clinical teaching. Program courses provide skills and strategies for facilitation of learning in a variety of settings.

Admission Requirements

Acceptance into the MSN program will be based on information from the following:

- Application for admission to the MSN program.
- Baccalaureate degree in nursing from a program accredited by the Accreditation Commission for Education in Nursing (ACEN) or the Commission on Collegiate Nursing Education (CCNE).
- Current licensure as a registered nurse in the State of Utah or eligibility for registered nurse licensure with completion of licensure process within 90 days of coursework commencement.
- Completion of an undergraduate course in statistics.
- Overall undergraduate GPA of 3.2 or higher or GPA of 3.2 or higher in the last 60 semester hours of undergraduate coursework.
- Three professional letters of recommendation from references who can assess applicant potential for success.

2015-16 Graduate—Tuition and General Fee Schedule

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For each credit hour over 12, $263 per credit hour will be assessed for residents and $802 per credit hour for non-residents

Nursing, M.S.N.

The Master of Science in Nursing program at Utah Valley University prepares post-baccalaureate nursing students for advanced practice roles as nurse educators in academic settings and/or as clinical nurse educators in healthcare institutions. Content focuses on theoretical foundations of nursing education and leadership; tests and measurements of outcomes; curriculum development, implementation and evaluation; and academic and clinical teaching. Courses provide skills and strategies needed for facilitation of learning in a variety of settings.

Upon completion of the MSN program, the student should be able to:

1. Function as a leader in the professional healthcare team.
2. Function as a change agent at the point of care and within the healthcare system.
3. Develop and implement programs to achieve educational outcomes based on learners' needs.
4. Evaluate evidence and utilize valid evidence to: Understand reliability and validity of research and publications, and be discriminating and discerning regarding the quality of literature and research.
5. Gather, evaluate, and utilize evidence for the improvement of patient outcomes.
6. Facilitate the development, implementation and evaluation of health policy and healthcare delivery.
7. Create a product that advances the science of nursing at the point of care in healthcare delivery, nursing education, or safety and quality practices.

For further information, contact us at MSNurseInfo@uvu.edu or 801-863-6317.

Matriculation Requirements:

1. Bachelor's degree in nursing from a program accredited by NLNAC or CCNE.
2. Currently licensed as an RN in Utah or eligible for RN licensure in Utah. (Must complete licensure within 90 days after coursework begins.)
3. Completion of an undergraduate course in statistics, including descriptive and inferential statistics.
4. Application for UVU admission to MSN program.
5. Submit Graduate Record Exam (GRE) scores.
6. Overall undergraduate GPA of 3.2 or higher, or GPA of 3.2 or higher in last 60 semester hours of undergraduate coursework.
7. Three professional letters of recommendation.

Discipline Core Requirements:

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<td>NURS 6400</td>
<td>Roles and Collaboration in Nursing Education</td>
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<td>NURS 6500</td>
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<tr>
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<tr>
<td>NURS 699R</td>
<td>MSN Project or Thesis</td>
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Graduation Requirements:

1. Complete all discipline core courses with a grade of 3.0 or better
2. Project or thesis completed and accepted by Department of Nursing Graduate Committee
Graduate Studies

Graduation Plan:
This graduation plan is intended to be a guide. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track.

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<td>NURS 6900</td>
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<td>NURS 699R</td>
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Careers:
Graduates of the UVU MSN program have the knowledge, skills and experience needed to educate nurses in academic and other professional settings. The program prepares registered nurses for advanced practice roles including nursing faculty in higher education, clinical nurse educators in healthcare institutions, and nursing leadership roles.

Education Graduate Studies

Education Graduate Studies

- **Dean:** Parker Fawson
- **Office:** ME 117b
- **Telephone:** 801-863-8006

- **Associate Dean:** Stan Harward
- **Office:** ME 112a
- **Telephone:** 801-863-6571

- **Assistant to Dean:** Wendi Hillman
- **Office:** ME 117
**Program Description**

The Master of Education (M.Ed.) degree at Utah Valley University is an applied master's degree aimed at building the instructional skill and professional competency of teachers. The goal is to enable participants to become more proficient in selecting optimum, research-based, curriculum design strategies that best apply to specific teaching situations.

There are currently five options within the Curriculum and Instruction Degree:

- Models of Instruction
- English as a Second Language (ESL)
- Elementary Mathematics
- Educational Technology
- Reading I

The M.Ed. requires 30-36 semester hours of graduate course work and completion of a culminating applied instructional project tailored to the particular interests of program participants. Participants enter the M.Ed. program in cohorts and progress through the degree program in a group. While the culminating applied instructional project is unique to each student, some course work and many class activities are done in collaboration with fellow students.

**Admission & Retention**

**Application to the Program**

Applicants should complete an online graduate application by following the application link on the UVU Web site and follow all instructions for graduate application and admission. Applications and application fees must be received by March 31 for consideration for summer semester. Students in the M.Ed. program begin with full-time coursework in the summers and part-time enrollment in the fall and spring semesters.

Required support materials received after the application deadline will delay processing of the application. The School of Education Graduate Screening Committee reviews applications and schedules interviews for applicants meeting minimum admission requirements. The Coordinator of Graduate Studies for the School of Education notifies all applicants in writing of the admission decision. The University cannot guarantee a response on or before a specific date. All admission materials become the property of UVU and will not be returned to the applicant.

**Reapplication**

If an applicant is not admitted, s/he may reapply. All current admission requirements at the time of application must be met.

**Satisfactory Progress**

Continuation in the Master of Education program is determined by: (1) satisfactory progress (B- or higher) in all courses and (2) faculty committee chair and the graduate admission and retention committee recommendation.

**Academic Probation**

A student can be recommended for academic probation for the following reason(s): (1) Failure to meet the scholarship requirements of the Graduate Program of an overall GPA of 3.00 (on a 4.00 scale) or higher, with no individual course grade lower than B-; (2) Failure to complete prescribed courses; and/or (3) Failure to adhere to University student rights and responsibilities standards.

**Dismissal from the Program**

A student can be dismissed from the Master of Education program for the following reason(s):

1. Academic dishonesty;
2. Continued failure to meet academic standards; and/or
3. Continued failure to adhere to University student rights and responsibilities standards.

Courses

Admission to the master's program or permission of the Dean of the School of Education is required for enrollment in the Master of Education courses.

### 2015-16 Graduate—Tuition and General Fee Schedule

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<th>Credit Hours</th>
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<th>Resident Fees</th>
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### Curriculum and Instruction, M.Ed.

Curriculum and Instruction, M.Ed. 30 Credits

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master’s program aimed at building the instructional skills and professional competency of teachers. Currently there are five options for participants: Models of Instruction; English as a Second Language (ESL); Elementary Mathematics; Reading I, and Educational Technology. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Matriculation Requirements:

1. Application for admission.
2. Bachelor degree from an accredited institution.
3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.
4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.
5. Interview with School of Education Graduate Committee.
6. Three professional letters of recommendation.

Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching. Preference will be given to practicing teachers who have access to an established classroom.

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<th>Discipline Core Requirements</th>
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Complete one of the following five options. 18

**Option One: Models of Instruction:**

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<td>EDUC 6320</td>
<td>Instructional Models I (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 6330</td>
<td>Instructional Models II (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 6400</td>
<td>Transformational Leadership (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 6410</td>
<td>Contemporary Issues (3.0)</td>
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</tbody>
</table>

**Option Two: English as a Second Language * **

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6340</td>
<td>English as a Second Language Methods (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 6350</td>
<td>Theories of Second Language Acquisition (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 6360</td>
<td>Multicultural Education (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 6370</td>
<td>Assessment of Second Language Learners (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 6380</td>
<td>Literacy and Linguistics in English as a Second Language (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 6390</td>
<td>Family and Community Involvement (3.0)</td>
<td></td>
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</tbody>
</table>

**Option Three: Elementary Mathematics * **

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDUC 6500</td>
<td>Teaching K-8 Numbers and Operations (3.0)</td>
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<td>EDUC 6510</td>
<td>Teaching K-8 Rational Numbers and Proportional Reasoning (3.0)</td>
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<td>EDUC 6520</td>
<td>Teaching K-8 Algebraic Reasoning (3.0)</td>
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<tr>
<td>EDUC 6530</td>
<td>Teaching K-8 Geometry and Measurement (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 6540</td>
<td>Teaching K-8 Data Analysis and Problem Solving (3.0)</td>
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<tr>
<td>EDUC 6550</td>
<td>Teaching K-8 Assessment and Intervention (3.0)</td>
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**Option Four: Educational Technology * **

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EDUC 6800</td>
<td>Cognition, Education and Technology (3.0)</td>
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</tr>
<tr>
<td>EDUC 6810</td>
<td>Instruction, Curriculum and Educational Leadership in the Digital Age (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 6820</td>
<td>Designing and Producing Media for Instruction (3.0)</td>
<td></td>
</tr>
<tr>
<td>EDUC 6830</td>
<td>Digital Models of Instruction (3.0)</td>
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</table>
Graduate Studies

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EDUC 6840</td>
<td>Universal Design for Learning (3.0)</td>
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<tr>
<td>EDUC 6850</td>
<td>Digital Course Design Capstone (3.0)</td>
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Option Five: Reading I *

<table>
<thead>
<tr>
<th>Course Title</th>
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<tbody>
<tr>
<td>EDUC 6660</td>
<td>Reading Assessments and Instructional Interventions (3.0)</td>
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<tr>
<td>EDUC 6661</td>
<td>Literacy and Cognition of Reading (3.0)</td>
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<tr>
<td>EDUC 6662</td>
<td>Early Literacy Instruction (3.0)</td>
</tr>
<tr>
<td>EDUC 6663</td>
<td>Content Area Reading (3.0)</td>
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<tr>
<td>EDUC 6664</td>
<td>Adolescent Literacy (3.0)</td>
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<tr>
<td>EDUC 6665</td>
<td>Reading Comprehension Instruction (3.0)</td>
</tr>
<tr>
<td>EDUC 6666</td>
<td>Effective Writing Instruction (3.0)</td>
</tr>
</tbody>
</table>

Other degree options as approved by the Dean of the UVU School of Education

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Footnotes

* This option may allow the transfer of up to 12 credits from 5000 level courses taken in this area of study; however, 6 additional credits of master's level courses would be required. Please contact your advisor for more information.

Graduation Plan:

This graduation plan is intended to be a guide. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track.

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EDUC 6100</td>
<td>Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6110</td>
<td>Applied Statistics for Education</td>
<td>3</td>
</tr>
<tr>
<td>Option Course 1</td>
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<td>3</td>
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<tr>
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</table>

Notes: Option Course 1 - Models of Instruction, EDUC 6320; ESL, EDUC 6350; Ed Tech, EDUC 6800; Elem Math, 6500; Reading I, 6660

<table>
<thead>
<tr>
<th>Semester 2</th>
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<tr>
<td>EDUC 6200</td>
<td>Master's Project</td>
<td>3</td>
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<tr>
<td>EDUC 6910</td>
<td>Project I</td>
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<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Course Title</th>
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<tr>
<td>EDUC 6920</td>
<td>Project II</td>
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Notes: Notes: Option Course II - Models of Instruction, EDUC 6330; ESL, EDUC 6360; Ed Tech, EDUC 6810; Elem Math, 6510; Reading I, 6661

<table>
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<tr>
<th>Semester 4</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>Option Course III</td>
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<tr>
<td>Option Course IV</td>
<td></td>
<td>3</td>
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<tr>
<td>Option Course V*</td>
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</table>

Notes: Notes: Option Course III - Models of Instruction, EDUC 6300; ESL, EDUC 6340; Ed Tech, EDUC 6820; Elem Math, 6520; Reading I, 6662. Option Course IV - Models of Instruction, EDUC 6410; ESL, EDUC 6370; Ed Tech, EDUC 6830; Elem Math, 6530; Reading I, 6663. *Option Course V - Reading 1, EDUC 6664

<table>
<thead>
<tr>
<th>Semester 5</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>Option Course VI</td>
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</table>
Notes: Models of Instruction, EDUC 6310; ESL, EDUC 6380; Ed Tech, EDUC 6840; Elem Math, 6540; Reading I, 6665.

Semester 6

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EDUC 693R</td>
<td>Project III</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Option Course VII</td>
<td>3</td>
</tr>
<tr>
<td>Semester total:</td>
<td>4</td>
</tr>
</tbody>
</table>

Notes: Models of Instruction, EDUC 6400; ESL, EDUC 6390; Ed Tech, EDUC 6850; Elem Math, 6550; Reading I, 6666.

Degree total: 30

Careers:
While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

### Dual Language Immersion Endorsement

<table>
<thead>
<tr>
<th>Dual Language Immersion, Endorsement</th>
<th>15 Credits</th>
</tr>
</thead>
</table>

The Dual Language Immersion (DLI) Endorsement program is designed to prepare teachers to be sensitive and responsive to the needs of dual language immersion (DLI) learners and to become advocates for DLI in a variety of educational settings. Coursework is designed to address historical and political foundations of DLI education and methods and materials for engaging DLI students in challenging educational experiences. The UVU endorsement program is intended to provide educators with an opportunity to develop, expand, and integrate their knowledge of content, pedagogy, and cultural perspectives in dual language immersion education. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

#### Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>15 Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUC 5700 Foundations of Dual Language Immersion Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5300 Content-based Curriculum, Instruction, and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5380 Second Language Literacy Development for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5340 Methods of Second Language Acquisition for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5710 Instructional Strategies, Curriculum, and Classroom Management for the Elementary Classroom (For Secondary Teachers)</td>
<td>3</td>
</tr>
<tr>
<td>or EDUC 5350 Theories of Second Language Acquisition for Practitioners (For Elementary Teachers) (3.0)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Graduation Plan:**

This graduation plan is intended to be a guide. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

<table>
<thead>
<tr>
<th>Suggested course sequence:</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 5700</td>
<td>Foundation of Dual language Immersion Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5710</td>
<td>Instructional Strategies and Classroom Management for the Elementary Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5300</td>
<td>Content-based Curriculum, Instruction and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5380</td>
<td>Second Language Literacy Development</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5340</td>
<td>Methods of Second Language Acquisition</td>
<td>3</td>
</tr>
</tbody>
</table>
EDUC 5350  
Theories of Second Language Acquisition  
3  
Notes: This is a 15 credit endorsement. Students will take either EDUC 5710 or EDUC 5350, but are not required to take both.  
Degree total:  
15  

Careers:  
While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Program options in English as a Second Language, Educational Technology, Elementary Mathematics, and Reading I will also qualify students to apply for an endorsement to their current Utah Teaching Certificate.

Educational Technology Endorsement  
Educational Technology, Endorsement  
18 Credits  

The Educational Technology endorsement program emphasizes coursework that prepares classroom teachers to incorporate the latest technological tools into effective instructional practice. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.  

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>18 Credits</th>
</tr>
</thead>
</table>
| EDUC 5800  
Cognition, Education and Technology for Practitioners (3.0)  
or  
EDUC 5810  
Instruction, Curriculum & Educational Leadership in the Digital Age for Practitioners (3.0)  
or  
EDUC 5820  
Designing and Producing Media for Instruction for Practitioners (3.0)  
or  
EDUC 5830  
Digital Models of Instruction for Practitioners (3.0)  
or  
EDUC 5840  
Universal Design for Learning for Practitioners (3.0)  
or  
EDUC 5850  
Digital Course Design Capstone for Practitioners (3.0)  
or  
EDUC 6850  
Digital Course Design Capstone  

Graduation Plan:  
This graduation plan is intended to be a guide. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track.  

<table>
<thead>
<tr>
<th>Suggested sequence of courses:</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
</table>
| EDUC 5800  
Cognition, Education, and Technology  
3  
EDUC 5810  
Instruction, Curriculum, and Educational Leadership in the Digital Age  
3  
EDUC 5820  
Design and Production of Media for Instruction  
3  
EDUC 5830  
Digital Models of Instruction  
3  
EDUC 5840  
Universal Design for Learning  
3  
EDUC 5850  
Digital Course Design Capstone  
3
Elementary Mathematics Endorsement

The Elementary Mathematics program emphasizes coursework that better prepares teachers in the elementary classroom in mathematical content and pedagogy, including courses in six key areas of mathematics. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 5500</td>
<td>Teaching K-8 Numbers and Operations for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EDUC 6500</td>
<td>Teaching K-8 Numbers and Operations (3.0)</td>
</tr>
<tr>
<td>EDUC 5510</td>
<td>Teaching K-8 Rational Numbers and Proportional Reasoning for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EDUC 6510</td>
<td>Teaching K-8 Rational Numbers and Proportional Reasoning (3.0)</td>
</tr>
<tr>
<td>EDUC 5520</td>
<td>Teaching K-8 Algebraic Reasoning for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EDUC 6520</td>
<td>Teaching K-8 Algebraic Reasoning (3.0)</td>
</tr>
<tr>
<td>EDUC 5530</td>
<td>Teaching K-8 Geometry and Measurement for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EDUC 6530</td>
<td>Teaching K-8 Geometry and Measurement (3.0)</td>
</tr>
<tr>
<td>EDUC 5540</td>
<td>Teaching K-8 Data Analysis and Problem Solving for Practitioners</td>
<td>3</td>
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<tr>
<td>or</td>
<td>EDUC 6540</td>
<td>Teaching K-8 Data Analysis and Problem Solving (3.0)</td>
</tr>
<tr>
<td>EDUC 5550</td>
<td>Teaching K-8 Assessment and Intervention for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EDUC 6550</td>
<td>Teaching K-8 Assessment and Intervention (3.0)</td>
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</table>

Graduation Plan:

This graduation plan is intended to be a guide. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track.
Careers:
While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

## English as a Second Language Endorsement

<table>
<thead>
<tr>
<th>Program</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English as a Second Language, Endorsement</td>
<td>18</td>
</tr>
</tbody>
</table>

The English as a Second Language program emphasizes coursework that aids teachers in becoming better skilled at meeting the needs of English language learners in the K-12 classroom, and better prepared to understand the many cultural and community influences that may influence student learning. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

### Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 5340</td>
<td>Methods of Second Language Instruction for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EDUC 6340</td>
<td>English as a Second Language Methods (3.0)</td>
</tr>
<tr>
<td>EDUC 5350</td>
<td>Theories of Second Language Acquisition for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EDUC 6350</td>
<td>Theories of Second Language Acquisition (3.0)</td>
</tr>
<tr>
<td>EDUC 5360</td>
<td>Multicultural Education for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EDUC 6360</td>
<td>Multicultural Education (3.0)</td>
</tr>
<tr>
<td>EDUC 5370</td>
<td>Assessment for Second Language Learners for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EDUC 6370</td>
<td>Assessment of Second Language Learners (3.0)</td>
</tr>
<tr>
<td>EDUC 5380</td>
<td>Second Language Literacy Development for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EDUC 6380</td>
<td>Literacy and Linguistics in English as a Second Language (3.0)</td>
</tr>
<tr>
<td>EDUC 5390</td>
<td>Family and Community Involvement for Practitioners</td>
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</tr>
<tr>
<td>or</td>
<td>EDUC 6390</td>
<td>Family and Community Involvement (3.0)</td>
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</table>

### Graduation Plan:

This graduation plan is intended to be a guide. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EDUC 5350</td>
<td>Theories of Second Language Acquisition for Practitioners</td>
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<td>EDUC 5360</td>
<td>Multicultural Education for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5340</td>
<td>Methods of Second Language Instruction for Practitioners</td>
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<td>EDUC 5370</td>
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<td>3</td>
</tr>
<tr>
<td>EDUC 5380</td>
<td>Literacy and Linguistics in Second Language Learning for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5390</td>
<td>Family and Community Involvement for Practitioners</td>
<td>3</td>
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</table>

**Degree total:** 18
Careers:
While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

Gifted and Talented Endorsement

The Utah Valley University Gifted and Talented endorsement program is designed to prepare teachers to be sensitive and responsive to the needs of gifted and talented (GT) learners and to become advocates for their students in a variety of educational settings, whether they become teachers in Gifted and Talented programs or teachers who work with these learners in the mainstream classroom setting. Coursework is designed to address historical and political foundations of GT education, the social and emotional needs of these learners, and methods and materials for engaging GT students in challenging educational experiences. The UVU endorsement program is intended to provide educators with an opportunity to develop, expand, and integrate their knowledge of content, pedagogy, and cultural perspectives in gifted and talented education.

Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 5600</td>
<td>Education of the Gifted and Talented</td>
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</tr>
<tr>
<td>EDUC 5610</td>
<td>Social and Emotional Needs of the Gifted</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5620</td>
<td>Identification/Evaluation in Gifted Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5630</td>
<td>Curriculum and Materials in Gifted Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5640</td>
<td>Improvement of Curriculum Instruction in the Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5650</td>
<td>Leadership in Gifted and Talented Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Plan:
This graduation plan is intended to be a guide. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track.

<table>
<thead>
<tr>
<th>Suggested sequence</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 5600</td>
<td>Education of the Gifted and Talented</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5610</td>
<td>Social and Emotional Needs of the Gifted</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5620</td>
<td>Identification and Evaluation in Gifted Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5630</td>
<td>Curriculum and Materials in Gifted Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5640</td>
<td>Improvement of Curriculum Instruction in the Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5400</td>
<td>Leadership in Gifted and Talented Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Degree total: 18

Careers:
While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for opportunities for teaching in Gifted and Talented programs, expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Reading I, Endorsement

The Reading Endorsement Program (REP) is designed to prepare teachers to be responsive to current scientific-reading research for teaching reading and to become advocates for reading research in the educational setting. Coursework is designed to address historical and political foundations of reading education and methods and materials for engaging students in challenging educational experiences. The UVU endorsement program is intended to provide educators with an opportunity to develop, expand, and integrate their knowledge of cognition, content, pedagogy, and cultural perspectives in their curriculum. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.
Graduate Studies

Discipline Core Requirements:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 5660</td>
<td>Reading Assessments and Instructional Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6660</td>
<td>Reading Assessments and Instructional Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5661</td>
<td>Literacy and Cognition of Reading for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6661</td>
<td>Literacy and Cognition of Reading for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5662</td>
<td>Early Literacy Instruction for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6662</td>
<td>Early Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5663</td>
<td>Content Area Reading for Practitioners</td>
<td>3</td>
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<tr>
<td>EDUC 5663</td>
<td>Content Area Reading for Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5664</td>
<td>Adolescent Literacy for Practitioners</td>
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<tr>
<td>EDUC 5664</td>
<td>Adolescent Literacy</td>
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<tr>
<td>EDUC 5665</td>
<td>Reading Comprehension Instruction for Practitioners</td>
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<td>Reading Comprehension Instruction for Practitioners</td>
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</tr>
<tr>
<td>EDUC 5666</td>
<td>Effective Writing Instruction for Practitioners</td>
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<td>EDUC 5666</td>
<td>Effective Writing Instruction</td>
<td>3</td>
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</table>

Graduation Plan:  

This graduation plan is intended to be a guide. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track.

<table>
<thead>
<tr>
<th>Suggested sequence</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EDUC 5660</td>
<td>Reading Assessments and Instructional Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5661</td>
<td>Literacy and Cognition of Reading</td>
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<tr>
<td>EDUC 5662</td>
<td>Early Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5663</td>
<td>Content Area Reading</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5664</td>
<td>Adolescent Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5665</td>
<td>Reading Comprehension Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 5666</td>
<td>Effective Writing Instruction</td>
<td>3</td>
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</tbody>
</table>

Degree total: 21 Credits

Careers:  

While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for opportunities for teaching in specialized reading programs, expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

Business Graduate Studies

Woodbury School of Business

Dean: Norman S. Wright
- Office: WB 128B
- Telephone: 801-863-8260
- Email: norman.wright@uvu.edu

WSB Graduate Program Director: Trisha Alexander
Master of Business Administration

MBA Academic Director: Tammy Parker

- Office: WB 230
- Telephone: 801-863-8367
- Email: Tammy.Huffman@uvu.edu

MBA Program Manager: TBD

- Office: WB 127a
- Telephone: 801-863-5099

Advisor: Terry Smith

- Office: WB 132a
- Telephone: 801-863-8314
- Email: acordte@uvu.edu

Administrative Support: TBD

- Office: WB 127
- Telephone: 801-863-5504

Program Description

Utah Valley University offers two distinct MBA tracks. The professional, part-time, Master of Business Administration track is an applied graduate degree that reflects the Woodbury School of Business’s long and distinguished history of providing excellence in business education. Our innovative team-based curriculum reaches beyond the walls and textbooks of a traditional program and is geared toward students with a moderate level of business management experience. This professional program leverages the management experiences of our professional students while focusing on application and practice through the use of group discussions, case studies, simulations, projects, and interaction with regional organizations and business leaders. The two year program offers two areas of emphasis in management or accounting and meets on Tuesday and Thursday evenings—an ideal schedule for enterprising professionals.

Our full-time accelerated Master of Business Administration option is designed to meet the needs of students that have completed their undergraduate degree and would like to continue their education through a one-year, three semester, accelerated program. This curriculum requires a full-time effort, as classes, workshops, and events are scheduled throughout the week. Due to the rigorous demands of this program, employment during enrollment is discouraged. Courses concentrate on real-world and engaged activities designed to assist students as they prepare to enter the business world. Two areas of emphasis are offered – business management and accounting.

The MBA program embraces the university’s designation as an engaged learning campus. Students immerse themselves in all aspects of business management, including accounting, leadership, marketing, economics, ethics, and social responsibility. Throughout the program, students will participate in several integration modules, designed to integrate the various functions of business through projects, simulations, and comprehensive case studies.

Prerequisites

All prerequisite and proficiency courses must be completed prior to beginning the program. The prerequisite courses for Finance and Business Statistics taken within the last five years with a “C” grade or better by April 1 of each year, meet the prerequisite requirement.

Students may elect to fulfill their prerequisites through the successful completion of on-line course “boot camps” through UVU’s Continuing Education Department. These self-paced courses have been developed by Woodbury School of Business faculty and are designed to prepare students for the rigor of their MBA program. These courses are not for credit. Registration and payment are through the Continuing Education Department. Contact the MBA office for additional information.

Accelerated Business Core ”Boot camp” (13.5 credit hours):

- Financial and Managerial Accounting (3.0)
- Corporate Finance (1.5)
- Operations Management (1.5)
- Economics (3)
- Management (1.5)
- Legal/Ethical Environment (1.5)

Prerequisite Courses (or equivalent classes) from Undergraduate Studies:

- ECON 2010 Introduction to Macroeconomics
- ECON 2020 Introduction to Microeconomics
- ACCT 2010 Financial Accounting
- ACCT 2020 Managerial Accounting
- LEGL 3000 Business Law
- MGMT 2240 Business Calculus
Graduate Studies

MGMT 2340 Business Statistics
MGMT 3010 Principles of Management
MGMT 3100 Principles of Finance
MGMT 3600 Principles of Marketing
MGMT 3450 Operations Management

Application Process

Baccalaureate degree holders with both business and non-business majors may apply. Deadlines and current application requirements are posted on the website, www.uvu.edu/mba. Applicants must submit all of the following to the Woodbury School of Business:

2. Remit a nonrefundable $45 fee by check or money order (payable to UVU).
3. Forward all official university transcripts.
4. Respond to the two admission essay questions.
5. Submit a current resume that includes educational background and professional work experience.
6. Provide three letters of recommendation. Recommenders can send letters of recommendation or complete electronic evaluation forms.

Send official GMAT test scores. GMAT registration is available at www.mba.com. Submit TOEFL scores with a minimum of 79 for the Internet-based test (This is only for applicants for whom English is a second language and who have not earned a degree in the U.S.)

1. Student interviews may also be requested at the discretion of the student selection committee.

Reapplication

If an applicant is not admitted, he/she may reapply again at a later time. All current admission requirements at the time of application must be met.

Satisfactory Progress

Continuation in the Master of Business Administration program is determined by: (1) satisfactory progress (C or higher) in all courses (completed courses with a grade lower than a C must be repeated) and (2) faculty committee chair and the graduate admission and retention committee recommendation.

Academic Probation

A student can be recommended for academic probation for the following reason(s): (1) Failure to meet the scholarship requirements of the Graduate Program of an overall GPA of 3.00 (on a 4.00 scale) or higher, with no individual course grade lower than C; (2) Failure to complete prescribed courses; and/or (3) Failure to adhere to University student rights and responsibilities standards.

Dismissal from the Program

A student can be dismissed from the Master of Business Administration program for the following reason(s):

1. Academic dishonesty;
2. Continued failure to meet academic standards; and/or
3. Continued failure to adhere to University student rights and responsibilities standards.

Courses

Admission to the Master of Business Administration program is a requirement for enrollment into all Master of Business Administration courses.

<table>
<thead>
<tr>
<th>2015-16 Graduate–MBA Tuition and General Fee Schedule</th>
</tr>
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<tbody>
<tr>
<td><strong>RESIDENT</strong></td>
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<tr>
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</tr>
<tr>
<td>1.5</td>
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<tr>
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</tr>
</tbody>
</table>

760 Utah Valley University
### Master of Business Administration, Accounting Emphasis, M.B.A.

The UVU Master of Business Administration is an applied graduate degree that reflects the Woodbury School of Business's long and distinguished history of providing excellence in business education. Our innovative team-based curriculum reaches beyond the walls and textbooks of a traditional program and includes not only instruction in the disciplines of business, but also offers many opportunities to apply important skills such as leadership, teamwork, ethical decision making, critical thinking and problem solving, written and oral communication as they are woven throughout the curriculum. Students immerse themselves in all aspects of business management, including accounting, marketing, economics, and social responsibility. Students participate in an international project and travel to the country of their project hosts. The program culminates with a comprehensive real-life consulting project with a company operating in our region.

The full-time track for the Master of Business Administration program at Utah Valley University is a one year, accelerated MBA program that offers either of two concentration areas in management or accounting.

The part-time track for the Master of Business Administration program at Utah Valley University is a two year plan for working professionals which embraces the university's designation as an engaged learning campus and also offers either of two concentration areas in management or accounting.

The MBA program is AACSB accredited.

#### Discipline Core Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 6350</td>
<td>Accounting Strategies for Achieving Profit Goals</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6150</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6740</td>
<td>Operations and Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6800</td>
<td>Global Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6910</td>
<td>Designing Business</td>
<td>1.5</td>
</tr>
<tr>
<td>MGMT 6930</td>
<td>International Engagement</td>
<td>1.5</td>
</tr>
<tr>
<td>MGMT 6940</td>
<td>MBA Consulting Project</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 6920</td>
<td>Creativity and Innovative Problem Solving</td>
<td>1.5</td>
</tr>
<tr>
<td>MGMT 6950</td>
<td>Ethical Decision Making</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Complete one of the following two tracks.

**Track One: Professional Part-Time**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 6200</td>
<td>Effectively Managing and Facilitating Teams (1.5)</td>
<td>1.5</td>
</tr>
<tr>
<td>MGMT 6250</td>
<td>Managing Human Capital (1.5)</td>
<td>1.5</td>
</tr>
<tr>
<td>MKTG 6610</td>
<td>Competitive Intelligence and Analysis (1.5)</td>
<td>1.5</td>
</tr>
</tbody>
</table>
Graduate Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 6810</td>
<td>Identifying and Leveraging Customer Opportunities (1.5)</td>
<td></td>
</tr>
<tr>
<td>Track Two: Full-Time</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGMT 6500</td>
<td>Managing Individuals and Groups (3.0)</td>
<td></td>
</tr>
<tr>
<td>MKTG 6600</td>
<td>Marketing Strategy (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

**Emphasis Requirements:**

- ACC 6410: Tax Research and Procedure 3
- ACC 6510: Financial Auditing 3
- ACC 6960: Accounting Theory and Research 3

**Graduation Requirements:**

1. Completion of 36 hours of approved credit with no grade lower than a "C" as described in this program.
2. Graduates may not transfer more than ten hours into this MBA program, preferably from an AACSB accredited institution. All transfer courses will be reviewed by a graduate committee managed by the Woodbury School of Business.
3. Final approval for graduation will be determined by the MBA graduate committee of the Woodbury School of Business.
4. A minimum cumulative GPA of 3.0 or higher must be maintained within program.

**Graduation Plan:**

This graduation plan is intended to be a guide. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track.

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 6910</td>
<td>Designing Business</td>
<td>1.5</td>
</tr>
<tr>
<td>ACC 6510*</td>
<td>Financial Auditing</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6500*</td>
<td>Managing Individuals and Groups</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6950*</td>
<td>Ethical Decision Making</td>
<td>1.5</td>
</tr>
<tr>
<td>ACC 6350*</td>
<td>Accounting Strategies for Achieving Profit Goals</td>
<td>3</td>
</tr>
<tr>
<td>ACC 6410**</td>
<td>Tax research and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6200**</td>
<td>Effectively Managing and Facilitating Teams</td>
<td>1.5</td>
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</tbody>
</table>

Semester total: 12*/6**

Notes: Unmarked courses are taken by both tracks while * Full time track and **Part time track.

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>MKTG 6920</td>
<td>Creativity and Innovative Problem solving</td>
<td>1.5</td>
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<tr>
<td>ACC 6410*</td>
<td>Tax Research and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6930*</td>
<td>International Engagement</td>
<td>1.5</td>
</tr>
<tr>
<td>MKTG 6600*</td>
<td>Marketing Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6740*</td>
<td>Operations and Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>ACC 6960**</td>
<td>Accounting Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 6810**</td>
<td>Identifying and Leveraging Customer Opportunities</td>
<td>1.5</td>
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</table>

Semester total: 12*/6**

Notes: Unmarked courses are taken by both tracks while * Full time track and **Part time track.

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>FIN 6150</td>
<td>Financial Management</td>
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<td>Global Business Strategy</td>
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<td>MGMT 6940*</td>
<td>MBA Consulting Project</td>
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<tr>
<td>ACC 6960*</td>
<td>Accounting Theory and Research</td>
<td>3</td>
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</tbody>
</table>

Semester total: 12*/6**

Notes: Unmarked courses are taken by both tracks while * Full time track and **Part time track.

The full time track concludes in Semester 3
### Master of Business Administration, Management Emphasis, M.B.A.

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ACC 6350</td>
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<tr>
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<tr>
<td>MGMT 6910</td>
<td>Designing Business</td>
</tr>
<tr>
<td>MGMT 6930</td>
<td>International Engagement</td>
</tr>
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</table>

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The MBA program is AACSB accredited.
### Graduate Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MGMT 6940</td>
<td>MBA Consulting Project</td>
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<tr>
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<td>Creativity and Innovative Problem Solving</td>
<td>1.5</td>
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<tr>
<td>MGMT 6950</td>
<td>Ethical Decision Making</td>
<td>1.5</td>
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</table>

Complete one of the following two tracks.

**Track One: Professional Part-Time**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>MGMT 6200</td>
<td>Effectively Managing and Facilitating Teams (1.5)</td>
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<td>MKTG 6610</td>
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<tr>
<td>MKTG 6810</td>
<td>Identifying and Leveraging Customer Opportunities (1.5)</td>
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</tbody>
</table>

**Track Two: Full-Time**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MGMT 6500</td>
<td>Managing Individuals and Groups (3.0)</td>
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<tr>
<td>MKTG 6600</td>
<td>Marketing Strategy (3.0)</td>
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**Emphasis Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ECON 6460</td>
<td>Economics for Decision Making</td>
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<tr>
<td>LEGL 6000</td>
<td>Legal Challenges in Modern Business</td>
<td>1.5</td>
</tr>
<tr>
<td>MGMT 6510</td>
<td>Information Systems and Project Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 6860</td>
<td>Applied Business Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**Graduation Requirements:**

1. Completion of 36 hours of approved credit with no grade lower than a "C" as described in this program.
2. Graduates may not transfer more than ten hours into this MBA program, preferably from an AACSB accredited institution. All transfer courses will be reviewed by a graduate committee managed by the Woodbury School of Business.
3. Final approval for graduation will be determined by the MBA graduate committee of the Woodbury School of Business.
4. A minimum cumulative GPA of 3.0 or higher must be maintained within program.

**Graduation Plan:**

This graduation plan is intended to be a guide. You are encouraged to meet with an advisor and set up an individualized graduation plan in **Wolverine Track**.

#### Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MKTG 6860</td>
<td>Applied Business Research</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6910</td>
<td>Designing Business</td>
<td>1.5</td>
</tr>
<tr>
<td>MGMT 6530*</td>
<td>Managing Individuals and Groups</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6950*</td>
<td>Ethical Decision Making</td>
<td>1.5</td>
</tr>
<tr>
<td>ACC 6350*</td>
<td>Accounting Strategies for Achieving Profit Goals</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6200**</td>
<td>Effectively Managing and Facilitating Teams</td>
<td>1.5</td>
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</tbody>
</table>

Semester total: 12**/6**

**Notes:** Unmarked courses are taken by both tracks while * Full time track and **Part time track.

#### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ECON 6300</td>
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<td>3</td>
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<tr>
<td>MKTG 6920</td>
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<td>1.5</td>
</tr>
<tr>
<td>MGMT 6930*</td>
<td>International Engagement</td>
<td>1.5</td>
</tr>
<tr>
<td>MKTG 6600*</td>
<td>Marketing Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 6740*</td>
<td>Operations and Supply Chain Management</td>
<td>3</td>
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<tr>
<td>MKTG 6810**</td>
<td>Identifying and Leveraging Customer Opportunities</td>
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Semester total: 12**/6**

**Notes:** Unmarked courses are taken by both tracks while * Full time track and **Part time track.

#### Semester 3

<table>
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<tr>
<th>Course Code</th>
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<td>MGMT 6800</td>
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<td>MGMT 6940*</td>
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<td>Value Creation Through Information Systems Management</td>
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**Semester total:** 12*/6**

Notes: Unmarked courses are taken by both tracks while * Full time track and **Part time track. The full time track concludes in Semester 3

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<td>MGMT 6510**</td>
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<tr>
<td>MGMT 6250**</td>
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**Semester total:** 6**

Notes: ** Part time track only in this semester

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<td>MKTG 6610**</td>
<td>Competitive Intelligence and Analysis</td>
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<td>ACC 6350**</td>
<td>Accounting Strategies for Achieving Profit Goals</td>
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**Semester total:** 6**

Notes: ** Part time track only in this semester

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<tr>
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**Semester total:** 6**

Notes: ** Part time track only in this semester

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**Careers:**
The job market will likely hold steady for 2014 MBA graduates, according to the Graduate Management Admission council. More than three-quarters of employers that plan to hire graduates expect to maintain or increase their hiring this year. They also report that projected hiring for 2014 is much improved from a few years ago. In addition, between 45 and 58 percent of employers plan to increase annual base salaries at or above the rate of inflation, an indicator that demand for talented graduates remains strong.

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**Biology Graduate Studies**

**College of Science & Health**

- **Dean**: Daniel Fairbanks
- **Office**: SB 241
- **Telephone**: 801-863-6441
- **Email**: daniel.fairbanks@uvu.edu

**Graduate Certificate in Regulatory Affairs for Life Sciences**

- **Department Chair**: Virginia Bayer
- **Office**: SB 243e
- **Telephone**: 801-863-8605
- **Email**: bayervi@uvu.edu

- **Coordinator**: Haven McCall
- **Office**: PS 201
- **Telephone**: 801-863-5422
- **Email**: Haven.McCall@uvu.edu

- **Advisor**: Terrell Wycone
Program Description
The Regulatory Affairs for Life Sciences Graduate Certificate program will provide students with the skills required to interpret and manage regulatory and quality compliance issues that are critical for the Life Sciences. The curriculum materials include formal studies that are specific to regulatory sciences (domestic and international), quality management system, and design control. Students will gain experience in technical communications with an emphasis on the theory and practice of technical writing as it relates to industry-based submissions. Students will participate in an internship or capstone project with a medical device, pharmaceutical, diagnostics, or biotechnology company. A baccalaureate degree in a science or a technology-related area of study will be required.

Admission Requirements
1. Bachelor degree from a regionally accredited US college or university.
2. A Minimum GPA of 3.0 on a 4.0 scale.

2015-16 Graduate--Tuition and General Fee Schedule

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For each credit hour over 12, $263 per credit hour will be assessed for residents and $802 per credit hour for non-residents.

Regulatory Affairs for Life Sciences, Graduate Certificate

| Regulatory Affairs for Life Sciences, Graduate Certificate | 15 Credits |
The Regulatory Affairs for Life Sciences Graduate Certificate program will provide students with the skills required to interpret and manage regulatory and quality compliance issues that are critical for the Life Sciences. The curriculum materials include formal studies that are specific to regulatory sciences (domestic and international), quality management system, and design control. Students will gain experience in technical communications with an emphasis on the theory and practice of technical writing as it relates to industry-based submissions. Students will participate in an internship or capstone project with a medical device, pharmaceutical, diagnostics, or biotechnology company. A baccalaureate degree in a science or a technology-related area of study will be required.

Total Program Credits: 15

Matriculation Requirements:

1. B.S. degree in Biology, Biotechnology, or related field.

Discipline Core Requirements: 15 Credits

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<td>Regulatory Affairs for Life Sciences</td>
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<td>BIOL 6010</td>
<td>Quality Management Systems for the Life Sciences</td>
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<td>BIOL 6020</td>
<td>Design Control and Risk Management for the Life Sciences</td>
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<td>ENGL 5340</td>
<td>Technical Communication Theory and Practice</td>
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<tr>
<td>BIOL 579R</td>
<td>Special Topics</td>
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<td>BIOL 681R</td>
<td>Biology Internship</td>
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<tr>
<td>or BIOL 680R</td>
<td>Capstone Project (1.0)</td>
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Graduation Requirements:

1. Minimum of 15 credits required for certificate
2. Minimum GPA of 3.0 for graduation
3. Residency hours -- minimum of 4 credit hours through course attendance at UVU.

Graduation Plan:

This graduation plan is intended to be a guide. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track.

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and Italicized.

<table>
<thead>
<tr>
<th>Semester 1</th>
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Careers: Information Systems and Technology Graduate Studies

College of Technology & Computing

- **Dean:** Michael Savoie
- **Office:** CS 720c
- **Telephone:** 801-863-8237
- **E-mail:** msavoie@uvu.edu
Graduate Studies

Graduate Certificate in Cyber Security

- **Department Chair:** Keith Mulbery  
- **Office:** CS 601g  
- **Telephone:** 801-863-8843  
- **Email:** Keith.Mulbery@uvu.edu

- **Coordinator:** Robert Jorgensen  
- **Office:** CP 636e  
- **Telephone:** 801-863-5282  
- **Email:** Robert.Jorgensen@uvu.edu

- **Advisor:** Julie Harps  
- **Office:** CS 635  
- **Telephone:** 801-863-8403  
- **Email:** JHarps@uvu.edu

Program Description

The Graduate Certificate in Cyber Security at Utah Valley University is a post-baccalaureate program for students who wish to complete advanced studies in the field of cyber security. This program is designed to provide students with advanced technical and managerial knowledge of cyber security, preparing them for senior technical and leadership roles in the field. Coursework includes a balanced approach, combining critical analysis of cyber security theory with hands-on education for essential applied cyber security techniques and tools.

The program takes two semesters to complete the 18 credits of graduate level courses. Courses include cyber security operations, advanced network defense, cyber security management, case studies, secure coding, ethical hacking, and the legal and privacy implications of cyber security.

To be successful, students should have a strong background in technology. Students should have completed undergraduate work in a related field or have applicable work experience. For those who do not meet this requirement, select undergraduate courses are available to provide the foundational knowledge needed. Please contact the academic advisor for more information.

Admission Requirements

Potential students must apply for admission into the program. To be accepted, students must have completed a Bachelor’s degree, preferably in Information Systems, Information Security, Information Technology, or Computer Science. However, applicants who have a Bachelor’s degree in another field may be admitted to the program if they also have at least two years of IT or cyber security industry experience and have completed undergraduate courses in data communication, programming, and servers.

### 2015-16 Graduate--Tuition and General Fee Schedule

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Resident Tuition</th>
<th>Resident Fees</th>
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Cyber Security, Graduate Certificate

Cyber Security, Graduate Certificate 18 Credits

The Graduate Certificate in Cyber Security at Utah Valley University is a post-baccalaureate program for students who wish to complete advanced studies in the field of cyber security. This program is designed to provide students with advanced technical and managerial knowledge of cyber security, preparing them for senior technical and leadership roles in the field. Coursework includes a balanced approach, combining critical analysis of cyber security theory with hands-on education for essential applied cyber security techniques and tools.

The program takes two semesters to complete the 18 credits of graduate level courses. Courses include cyber security operations, advanced network defense, cyber security management, case studies, secure coding, ethical hacking, and the legal and privacy implications of cyber security.

To be successful, students should have a strong background in technology. Students should have completed undergraduate work in a related field or have applicable work experience. For those who do not meet this requirement, select undergraduate courses are available to provide the foundational knowledge needed. Please contact the academic advisor for more information.

Total Program Credits: 18

Matriculation Requirements:
1. Application for admission to the program.
3. 2 years of IT or IT security industry experience (if Bachelor's degree in non-related field).
4. Completion of undergraduate courses in data communication, programming, and servers.

Discipline Core Requirements: 12 Credits

IT 5700 Principles of Cyber Security 3
IT 5710 Cyber Security Operations 3
IT 5752 Law, Ethics, and Privacy in Cyber Security 3
IT 6760 Case Studies in Cyber Security 3

Elective Requirements: 6 Credits
Choose 6 credits from the following:

IT 6740 Advanced Network Defense and Countermeasures (3.0)
IT 6770 Cyber Security Management (3.0)
IT 6780 Secure Coding (3.0)

Graduation Requirements:
1. Completion of a minimum of 18 credits.
2. Overall grade point average of 3.0 (B) or above.
3. Residency hours -- minimum of 5 credit hours through course attendance at UVU.
4. Courses and project requirements must be finished within a five-year period. No courses will apply toward graduation which are older than five years.

Graduation Plan:

This graduation plan is intended to be a guide. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track.

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.
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<th>Semester 1</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<td>BIO 6000</td>
<td>Regulatory Affairs for Life Sciences</td>
<td>4</td>
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<td>ENGL 5340</td>
<td>Technical Communication Theory and Practice</td>
<td>3</td>
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<td>BIO 579R</td>
<td>Special Topics</td>
<td>2</td>
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<th>Semester 2</th>
<th>Course Title</th>
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<td>BIO 6010</td>
<td>Quality Management Systems for the Life Sciences</td>
<td>2</td>
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<td>BIO 6020</td>
<td>Design Control and Risk Management for the Life Sciences</td>
<td>3</td>
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<td>BIO 681R or BIO 680R</td>
<td>Biology Internship or Capstone Project</td>
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</table>

Careers:

Cyber security is a critical part of our digitally connected lives. From the public sector to private industry, organizations are seeking cyber security professionals to protect their critical data. In addition to cyber security specialists, there is a demand for other technology and business leaders to have a solid understand of the principles and application of cyber security.
Faculty

A

ABBOtt, scott (1999); Professor. Faculty, Integrated Studies; B.A., M.A. German Literature, Philosophy minor, Brigham Young University; Ph.D., German Literature, Princeton University.

ABDRISAEV, Baktybek (2007); Lecturer. Faculty, History & Political Science; B.S., Computer Science, Bishkek Polytechnic Institute; Ph.D., Academy of Science Belarus.

AbunuwarA, Kim (2013); Assistant Professor. Faculty, Integrated Studies; B.A., Ph.D., Theatre & Film, Brigham Young University; MFA, National Theatre Conservatory.

Adams, David (1999); Associate Professor. Department Chair and Faculty, Engineering Technology; B.S., Mining Engineering, Virginia Polytechnic Institute and State University; professionally licensed Electrical Contractor, Building Inspector and Master Electrician.

Aeschbacher, max (2005); Associate Professor. Faculty, Developmental Mathematics; B.S., Mathematics, University of Utah; M.S., Mathematics, University of Oregon.

Albrecht-Crane, Christa (2001); Professor. Faculty, English & Literature; B.A., American Literary and Cultural History, Ludwig-Maximilians University; M.A., American Studies, Washington State University; Ph.D., Rhetoric and Technical Communication, Michigan Technological University.

Al-Ghaib, Huda (2015); Assistant Professor. Faculty, Computer Science; B.S., Computer Engineering & Information Technology, University of Technology, Baghdad, Iraq; M.S., Ph.D., Electrical Engineering, University of Alabama.

Allison, Charles (2001); Professor. Faculty, Computer Science; B.S., Mathematics/Portuguese, M.S., Mathematics/Statistics, Brigham Young University; M.S., Ph.D. (ABD). Applied Math/Computer Science, University of Arizona.

Allred, Steven (2008); Associate Professor. Faculty, Emergency Services; A.A.S., Fire Science; B.S., Public Emergency Services Management, Utah Valley University; A.A.S., Emergency Care and Rescue, Weber State University; M.Ed., Instructional Design, Utah State University.

Amin, masood (1997); Associate Professor. Faculty, Engineering Technology; B.S., M.S., Mechanical Engineering, Brigham Young University.

Andersen, Bonnie (2008); Associate Professor. Faculty, Physics; B.S., Physics, Brigham Young University; Ph.D., Experimental Physics, University of Utah.

Andersen, Duane (2014); Assistant Professor. Faculty, Digital Media; B.F.A., Brigham Young University; M.F.A., State University of New York, Buffalo.

Anderson, christopher (2014); Lecturer. Faculty, Behavioral Science; B.A., Spanish, B.S., Behavioral Science, Utah Valley University; Ph.D. (ABD) Clinical Psychology, Brigham Young University.

Anderson, John (2007); Professor. Faculty, Information Systems & Technology; B.A., English, M.B.A., Strategy & Finance, University of Utah; Ph.D., Information Systems, Utah State University.

Anderson, Jonathan (2010); Assistant Professor. Faculty, Developmental Mathematics; B.S., M.S., Electrical and Computer Engineering, Brigham Young University.

Anderson, Karin (1991); Professor. Faculty, English & Literature; B.A., English, Utah State University; M.A., English, Brigham Young University; Ph.D., Literary Theory and Creative Writing, University of Utah.

Anderson, Thor (2005); Associate Professor. Faculty, Digital Media; B.A., German, Brigham Young University; M.S., Ph.D., Instructional Technology, Utah State University.

Andrist, kathryn (2001); Professor. Faculty, Mathematics; B.S., M.S., Ph.D., Mathematics, Brigham Young University.

Arendt, Anne (2011); Assistant Professor. Faculty, Technology Management; B.A., University of Minnesota; M.S., Walden University; M.B.A., University of Minnesota; Ed.D., Utah State University.

Armstrong, vaughn (2003); Associate Professor. Faculty, Finance & Economics; B.S., Mathematics, J.D., J. Reuben Clark College of Law, Brigham Young University; Ph.D., Finance, Arizona State University.

Arrington, James (1999); Associate Professor. Faculty, Theatrical Arts for Stage & Screen; B.F.A., Theater, Utah State University; M.A., Theater, Brigham Young University.

Ashman, Marinda (2007); Associate Professor. Department Chair and Faculty, Student Leadership & Success Studies; B.S. Elementary Education, Brigham Young University; M.Ed., Health, Physical Education & Recreation, Utah State University.
BENTLEY, Jan (1999); Associate Professor. Faculty, Information Systems & Technology: B.S., Marketing and Distribution Education; Brigham Young University; M.S., Business Information Systems and Education, Utah State University.

BETTRIDGE, Amy (2013); Lecturer. Faculty, Marketing; B.A., International Relations, Brigham Young University; M.S. Business, Utah State University.

BEZZANT, Howard (2008); Associate Professor. Faculty, Engineering Graphics & Design Technology; A.A.S., Drafting and Design Technology, Utah Technical College; B.S., Technology and Industrial Education, Utah State University; M.Ed., Instructional Technology and Learning Sciences.

BHATTACHARJEE, Debanjan (2011); Assistant Professor. Faculty, Mathematics; B.S., M.S., Statistics, University of Calcutta, Ph.D., Statistics, University of Connecticut.

Bi, Rachel (2014); Assistant Professor. Faculty, Finance & Economics: B.S., Management of Information Systems, Dalain Maritime University; M.S., Personal Financial Planning; MBA, Finance; Ph.D. (ABD), Texas Tech University.

BIRCH, Brian (1999); Professor. Faculty, Philosophy & Humanities; Coordinator, Religious Studies, Interdisciplinary Studies Program; M.S., Philosophy, University of Utah; Ph.D., Philosophy of Religion & Theology, Claremont Graduate University.

BLACK, Katherine (2005); Associate Professor. Faculty, Accounting; B.S. Accounting, M.Acc., Taxation, Utah State University; J.D., UC Davis School of Law; LL.M., Taxation, McGeorge School of Law.

BLACKHURST, Kelvyn (2003); Associate Professor. Faculty, Automotive Technology; A.A.S., Diesel and Heavy Duty Mechanics, Utah Valley State College.

BLEVINS, Maria (2013); Assistant Professor. Faculty, Communication; B.S. Recreation Management, University of Maine at Machias, M.A.; Organizational Communications, University of Montana; Ph.D., Speech Communication, University of Utah.

BOAM, Dale (2006); Assistant Professor. Faculty, Languages & Cultures; B.A, Sociology, University of Utah; J.D., Northeastern University School of Law

BODEN, Jeremy (2010); Lecturer. Faculty, Behavioral Science; B.S., Psychology, Brigham Young University; M.S., Marriage and Family Therapy, Loma Linda University; Ph.D. (ABD), Human Development & Family Studies, Texas Tech University.

BOGGESS, Cris (1999); Associate Professor. Faculty, Automotive Technology; Certificate, Auto Body Repair, Utah Technical College at Salt Lake.

BOHL, Dean (2001); Associate Professor. Faculty, Automotive Technology; A.A.S., Diesel Equipment Technology, Utah Valley State College.

BOHNE, Michael (2007); Associate Professor. Department Chair and Faculty, Exercise Science & Outdoor Recreation; B.S., Physical Education, M.S., Exercise Science, Utah State University; Ph.D., Sport & Exercise Science, University of Northern Colorado.

BOND, Calvin (2001); Associate Professor. Faculty, Chemistry; B.S., Chemistry, Ph.D., Environmental and Analytical Chemistry, University of Maryland.

BORCHELT, Mark (2008); Associate Professor. Faculty, Dance; B.S., Psychology (Magna Cum Laude), M.F.A., Ballet, Utah University of Utah.

BORNES, Renee (2011); Assistant Professor. Faculty, Student Leadership & Success Studies; B.A., Public Administration, University of Central Florida; M.S., Higher Education Administration, Florida State University, Ph.D., Higher Education Administration, Bowling Green State University.

BOTT, Laurie (2011); Lecturer. Faculty, Marketing; B.A., Communications, Utah Valley University.

BOYER, Bret (2007); Associate Professor. Faculty, Exercise Science & Outdoor Recreation; B.S., Sports Medicine, M.A., Health, Brigham Young University; D.P.T., Physical Therapy, Creighton University.

BRACKEN, Mark (1997); Associate Professor. Faculty, Biology; B.S, Ph.D., Exercise Physiology, Brigham Young University.

BRADFORD, Joel (1993); Associate Professor. Faculty, Earth Science; B.S., Vocational Education, Southern Illinois University; M.S., Cultural Anthropology, University of Utah.

BRADSHAW, James (2013); Lecturer. Faculty, Biology; B.S., Biochemistry & Cell Biology, University of California-San Diego; Ph.D. Physiology & Developmental Biology, Brigham Young University.

BRADSHAW, Laurel (2012); Assistant Professor. Faculty, Nursing; B.S., Nursing, Brigham Young University; M.S.N., Nursing, Utah Valley University.

BRANDT, David (1992); Associate Professor. Faculty, Mathematics; B.S., Electrical Engineering; B.S., Mathematics, University of Missouri; M.S., Mathematics, University of Illinois.

BRANDT, Lorilyn (2009); Associate Professor. Faculty, Elementary Education; B.S., Elementary Education, M.Ed., Reading and Literacy, Brigham Young University; Ph.D., Curriculum and Instruction, Utah State University.

BRETON, Brett (2015); Assistant Professor. Faculty, Behavioral Science; A.S., Aviation & Air Traffic Control, Mount San Antonio College; B.S., Psychology, M.S., Counseling & School Psychology, Ph.D., Psychology, Brigham Young University.

BRINKERHOFF, Mary (2008); Assistant Professor. Faculty, Developmental Mathematics; B.S., Mathematics, Weber State University; M.S., Mathematics, University of Utah.

BRISCOE, Gregory (2002); Associate Professor. Faculty, Languages & Cultures; B.A., Spanish, Utah State University; M.A., Spanish, University of California, Berkeley; Ph.D., Spanish, University of Pennsylvania.

BROOME, Rodger (2010); Assistant Professor. Faculty, Emergency Services; A.S., Psychology, B.A., Psychology, Utah Valley University; M.A., Psychology, Saybrook University.

BROWN, Clayton (2006); Associate Professor. Faculty, Developmental Mathematics; B.A., Mathematics Education, Brigham Young University; M.A., Teachers of Mathematics, Central Washington University.

BROWN, Kim (2008); Associate Professor. Faculty, Digital Media; B.S., Business Education/Administrative Systems, M.Ed., Instructional Technology, Utah State University.

BROWN, Marc (2014); Professional in Residence. Faculty, Marketing; A.S., Business Management, Utah Valley University; B.A., Management, M.B.A., Finance & Accounting, University of Utah;

BROWN, Mary (2006); Associate Professor. Faculty, Public & Community Health; M.S., Community Health, Brigham Young University; Ph.D., Health Promotion & Education, University of Utah.

BULE, Steve (1999); Professor. Faculty, Art & Visual Communications; B.A., Italian & Art History, Brigham Young University; Ph.D., Art History, Ohio State University.

BULGER, Jeffery (1996); Professor. Faculty, Philosophy & Humanities; B.S., Geology (Petroleum Engineer), University of North Dakota; M.A., Theology, Western Seminary-Portland; Ph.D., Philosophy, University of Tennessee, Knoxville.

BUNDS, Michael (2001); Associate Professor. Department Chair and Faculty, Earth Science; B.A., Geological Sciences, University of California, Santa Barbara; M.S., Geology, University of California, Davis; Ph.D., Geology (Geochimistry, Structural Geology), University of Utah.

BYBEE, Paul (1994); Professor. Faculty, Biology; A.S., General Science, B.S., Zoology/Botany/Geology, Weber State University; M.S., Ecology, Ph.D., Zoology (Comparative Evolutionary Biology, Vertebrate Paleontology), Brigham Young University.

BYE, Colleen (2011); Assistant Professor. Faculty, Developmental Mathematics; B.A., Pure Mathematics, M.A., Mathematics, California State University.

BYRD, Elaine (1992); Professor. Faculty, Elementary Education; B.S., Social Work, Ed.D., Reading, Brigham Young University; M.A., Education/Reading Specialist, Hood College, Maryland.

BYPENES, Andrew (2008); Associate Professor. Faculty, Emergency Services; A.A.S., Fire Science, B.S., Public Emergency Services Management, Utah Valley University; M.Ed., Instructional Technology, Utah State University.

C

CADET, Eddy (1993); Associate Professor. Faculty, Earth Science; B.S., Biology, University of Illinois; M.S., Environmental Sciences, Tuskegee University; Licensed Environmental Health Scientist (Utah); Registered Environmental Health Specialist (REHS).

CAKA, Fern (2001); Associate Professor. Department Chair and Faculty, Chemistry; B.A., Chemistry, M.S., Ph.D., Analytical Chemistry, Brigham Young University.

CALDIERO, Alex (2002); Senior Artist in Residence. Faculty, Philosophy & Humanities; Artist in Residence

CALISKAN, Cenk (2009); Associate Professor. Faculty, Finance & Economics; B.S., Industrial Engineering, Bilkent University; M.S., Ph.D., Industrial and Systems Engineering, University of California-Los Angeles.
CALLISON, James (1994); Associate Professor. Faculty, Earth Science; B.S., Biology, Southern Utah University; M.S., Range Science, Brigham Young University; Ph.D., Watershed Management, University of Arizona.

CAMPBELL, Monica (2010); Assistant Professor. Faculty, Dance; B.F.A., M.F.A., Modern Dance, University of Utah.

CAMPBELL, Robert (1988); Associate Professor. Faculty, Automotive Technology; A.A.S., Automotive/Diesel Technology, Utah Technical College.

CARD, Arlen (2009); Associate Professor. Department Chair and Faculty, Digital Media; B.M.A., M.M., Brigham Young University; J.D., J. Reuben Clark Law School.

CARDON, Teresa (2013); Assistant Professor. Faculty, Behavioral Science; B.A., M.A., Communicative Disorders, California State University; Ph.D., Speech and Hearing Science, Arizona State University.

CARLSON, Gary (1984); Professor. Faculty, Mathematics; B.S., Mathematics, South Dakota School of Mines and Technology; M.S., Mathematics, Colorado State University.

CARLTON, Gaya (1991); Professor. Faculty, Nursing; A.S., Nursing, Weber State College; B.S., Nursing, M.S. Nursing, University of Utah; Ph.D., Nursing, University of Colorado.

CARNEY, Rob (1997); Professor, Faculty, English & Literature; B.A., English, Pacific Lutheran University; M.F.A., Creative Writing-Poetry, Eastern Washington University; Ph.D., English, University of Southwestern Louisiana.

CARTER, Angie (2010); Lecturer. Faculty, English & Literature; B.A., M.A., English, Brigham Young University.

CARTER, Larry (2011); Associate Professor. Faculty, Marketing; B.S., Business Marketing, M.S., Virginia Tech; Ph.D., Business Administration, Old Dominion University.

CHAMBERLAIN, Cory (2008); Associate Professor. Faculty, Aviation Science; A.A.S., Aviation Maintenance Technology, Utah Technical College; B.S., Psychology, University of Utah; Master of Aeronautical Science, Embry-Riddle Aeronautical University.

CHAMBERLAND, Stephen (2015); Assistant Professor. Faculty, Chemistry; B.S., Biochemistry, Boston College; Ph.D., Organic Chemistry, University of California, Irvine.

CHAN, Leo (2008); Associate Professor. Faculty, Finance & Economics; B.A., Ph.D., Economics, University of Kansas.

CHANG, Kuo-Liang (2011); Assistant Professor. Faculty, Developmental Mathematics; B.B.A., Information Management, M.A., Philosophy, Fu-Jen Catholic University, Taiwan; M.S., Applied Math, Ph.D., Math Education, Michigan State University.

CHAPARRO, Ana (2010); Lecturer. Faculty, Languages & Cultures; B.A., Spanish Translation, M.A., Spanish Peninsular Literature, Brigham Young University.

CHAPMAN, Jared (2011); Assistant Professor. Faculty, Management; B.A., Recreational Management & Youth Leadership, M.B.A., Ph.D., Applied Social Psychology, Brigham Young University; M.S., Instructional Technology, Utah State University.

CHAU, Cheung (2012); Associate Professor. Faculty, Music; B.M., Cello Performance, Harid Conservatory; M.M., Cello Performance, Yale School of Music; D.M.A., Cello Performance and Wind Ensemble Conducting, New England Conservatory.

CHEN, Hsiu-Chin (2004); Professor. Faculty, Nursing; B.S.N., Chung Shan Medical University; M.S., Nursing, Kaohsiung Medical University; Ph.D., Nursing, University of Utah.

CHENEY, Paul (2008); Associate Professor. Faculty, Digital Media; A.A., General Education, Ricks College; B.S., Elementary Education, Brigham Young University; M.S., Instructional Technology, Utah State University; Ph.D., (ABD), Instructional Technology, University of Virginia.

CHOU, Grace (2002); Professor. Faculty, Behavioral Science; B.A., Sociology, National Taiwan University; M.A., Ph.D., Sociology, University of California, Riverside.

CHRIST, Beau (2015); Assistant Professor. Faculty, Computer Science; B.S., Computer Science & Mathematics, Doane College; Ph.D. (ABD), Computer Science, University of Nebraska-Lincoln.

CHRISTENSEN, Tammy (2013); Lecturer. Faculty, Languages & Cultures; B.A., M.A., French Studies, Brigham Young University.

CHRISTENSEN, Trudy (2005); Associate Professor. Faculty, Digital Media; B.A., Communications, Ph.D., Instructional Psychology, Brigham Young University.

CHUNG, Joohyun (2008); Associate Professor. Faculty, Nursing; B.S., Nursing, Korea University; Ph.D., College of Nursing, University of Utah.

CIESLIEWICZ, Joshua (2010); Assistant Professor. Faculty, Accounting; B.S., M.Acc., Accounting, Brigham Young University; Ph.D., International Management, specialization in Accounting, University of Hawaii.

CLARK, Christopher (2006); Associate Professor. Department Chair and Faculty, Theatrical Arts for Stage & Screen; M.F.A., Directing Shakespeare, University of Exeter, Devonshire, England.

CLARK, Glen (2006); Professional Faculty. Faculty, Secondary Education; B.S., Zoology, M.Ed., Educational Administration, Ed.Sp., Educational Specialist, Brigham Young University.

CLARKE, Alan (2003); Professor. Faculty, Integrated Studies; LL.M. Human Rights Law, Queen's University, Kingston, Ontario; J.D., College of William and Mary; Ph.D. (ABD), York University.

CLAYTON, Marty (2012); Assistant Professor. Faculty, Digital Media; B.S., Landscape Architecture, The Ohio State University; M.F.A., Animation, The Savannah College of Art & Design.

Cockerham, Geoffrey (2007); Assistant Professor. Faculty, History & Political Science; B.A., Political Science, University of Illinois; M.A., Ph.D., Political Science, University of Arizona; J.D., Louisiana State University.

Cold, S. (1991); Associate Professor. Faculty, Information Systems & Technology; B.S., Physical Plant Administration, Brigham Young University; M.B.A., University of Nebraska; Ph.D. (ABD), Technology Management (Digital Communication Systems), Indiana State University.

Colledge, Jacqueline (2000); Lecturer. Faculty, Dance; Performance Artist

Collier, Kory (2015); Lecturer. Faculty, English Language Learning; M.A., English as a Second Language, B.A., Spanish, Brigham Young University.

Colvin, Janet (2007); Associate Professor. Department Chair and Faculty, Communication; B.A., Public Relations, Brigham Young University; M.A., Instructional Technology, Ph.D., Speech Communication, University of Utah.

Conaway, Teresa (2013); Assistant Professor. Faculty, Legal Studies; B.A., Political Science, Pikeville College; M.S., Information Systems, University of Tennessee; M.Ed., Student Personnel in Higher Education, Virginia Tech; J.D., Law, Penn State.

Condie, Heidi (2001); Associate Professor. Faculty, English Language Learning; B.A., German Literature, Brigham Young University; M.A., Linguistics, University of Utah.

Connelly, David (2008); Associate Professor. Department Chair and Faculty, History & Political Science; B.A., History, M.P.A., Marriott School of Management, Brigham Young University; Ph.D., Public Administration, SUNY Albany.

Cook, Raquel (2008); Associate Professor. Department Chair, Secondary Education; Faculty, Education Graduate Studies; B.A., English Literature, Brigham Young University; M.S., Women's Studies, Oxford University; Ed.D., Curriculum and Instruction, Utah State University.

Cottle, Nathan (2012); Associate Professor. Faculty, Behavioral Science; B.S., Family Science and Human Development, M.S., Marriage, Family & Human Development, Brigham Young University; Ph.D., Human Development and Family Sciences, University of Texas.

Cousins, Robert (1998); Professor. Faculty, English & Literature; B.A., Humanities, Brigham Young University; M.A., Ph.D., American Studies, Purdue University.

Cox, James (2009); Associate Professor. Faculty, Construction Technologies; A.S., Physics, Carbon Jr. College; Bachelor of Engineering Science in Civil Engineering, Mathematics, M.E., Transportation, Brigham Young University; Ph.D., Transportation, University of Utah.

Cox, Susan (2007); Associate Professor. Faculty, Secondary Education; B.A., Spanish, M.S., Ph.D., Instructional Psychology & Technology, Brigham Young University.

Cox, Vaughn (2011); Professional in Residence. Faculty, Finance & Economics; B.A., M.B.A., Finance, University of Utah.

Cozzens, Charles (1998); Associate Professor. Faculty, Management; B.S., Psychology, M.B.A., Marriott School of Business Management, Brigham Young University; M.A., Human and Organizational Systems, Fielding Graduate University.
CRAM, Stephanie (2010); Lecturer. Faculty, Developmental Mathematics; B.S., Mathematics, California Polytechnic State University; M.S., Mathematics Education, Florida State University.

CRANDALL, Kody (2014); Lecturer. Faculty, Information Systems & Technology; B.S., Business Management, Utah Valley University; M.S. Instructional Technology; Utah State University.

CRANE, Mark (2002); Associate Professor. Faculty, English & Literature; B.S., English Literature, Brigham Young University; M.A., English Literature, Portland State University; Ph.D., Composition and Rhetoric, University of Louisville.

CRAVEN, Marianne (1995); Professor; B.S., Nursing, Brigham Young University; M.N., Nursing, University of Phoenix.

CREER, Andrew (2008); Associate Professor. Faculty, Exercise Science & Outdoor Recreation; B.S., Physical Education, Utah State University; M.S., Exercise Science, Brigham Young University; Ph.D., Human Bioenergetics, Ball State University.

CRIFFLE, Reed (2010); Assistant Professor. Faculty, Music; B.A., Music, M.A., East Asian Studies, Stanford University; M.M., Conducting. Eastman School of Music; D.M.A., Choral Conducting, University of Michigan.

CROOK, Kenneth (2007); Associate Professor. Faculty, Criminal Justice/Law Enforcement; B.A., Middle East History, J.D., Brigham Young University.

DAVIDSON, J.D. (1972); Professor. Faculty, English & Literature; B.A., English, Brigham Young University; M.S., English, Utah State University.

DAVIS, Benjamin (1994); Associate Professor. Faculty, Construction Technologies; B.S., Geography/Urban Planning, University of Utah; M.S., Instructional Technology, Utah State University.

DAVIS, Courtney (2007); Assistant Professor. Faculty, Art & Visual Communications; B.A., Art History, M.A., Art History & Curator Studies, J.D., Brigham Young University.

DEAN, David (2007); Assistant Professor. Faculty, Developmental Mathematics; B.S., Mathematics, Utah Valley State College; M.S., Mathematics, University of Houston.

DEAN, Lukas (2014); Associate Professor. Faculty, Finance & Economics; B.A., M.S., Finance, Brigham Young University; Ph.D., Personal Finance, Texas Tech University.

DEBENHAM, Kathie (1991); Professor. Faculty, Dance; B.A., M.A., Physical Education/Dance, Brigham Young University; Certified Laban/Bartenieff Movement Analyst, University of Utah.

DEBRY, Roger (1998); Professor. Faculty, Computer Science; B.S., Mathematics, M.S., Computer Science, Ph.D., Electrical Engineering (Computer Science), University of Utah.

DEDIOS, Mari (2014); Lecturer. Faculty, Languages & Cultures; B.A., Psychology, Colombia College; M.B.A., Business, Stevens Henager College.

DEMSKE, Hilary (2009); Associate Professor. Faculty, Music; B.M., Piano Performance, The Peabody Conservatory of Music; M.M. Piano Performance, The Juilliard School; Meisterklasse Diploma, Munich Conservatory; D.M.A., Piano Performance, University of Michigan.

DESART, Jay (2004); Associate Professor. Faculty, History & Political Science; B.A., Political Science and International Relations, Concordia College; M.A., Ph.D., Political Science, University of Wisconsin-Milwaukee.

DEWITT, Robert (1986); Professor. Faculty, Art & Visual Communications; B.A., Art, M.F.A., Art Painting, Brigham Young University.

DISHMAN, Paul (2009); Associate Professor. Department Chair, Marketing; Faculty, Business Graduate Studies; B.F.A., Theater, Trinity University; M.B.A., Marketing, North Texas State University; Ph.D., Marketing, University of North Texas.

DITTMER, Peter (2011); Assistant Professor. Faculty, Aviation Science; B.B.A., Distribution & Logistics, Texas A&M University; M.S., Aviation Safety, University of Central Missouri; Ed.D., Organizational Leadership, Nova Southeastern University.

DOMYAN, Eric (2015); Assistant Professor. Faculty, Biology; B.S., Biology, M.Ed., Education, Ohio State University; Ph.D., Philosophy, University of Wisconsin-Madison.

DONOHUE, Sarah (2015); Assistant Professor. Faculty, Dance; B.F.A., Dance, University of Arizona; M.F.A., Modern Dance, University of Utah.

DOTY, Kristine (2008); Associate Professor. Department Chair and Faculty, Behavioral Science; A.A., General Studies, University of Maryland; B.S., Behavioral Science, Summa Cum Laude Faculty, M.S.W., Social Work, Brigham Young University; Ph.D., Social Work, University of Utah.

DOYLE, Timothy (2011); Assistant Professor. Faculty, Physics; B.S., Physics, M.S., Condensed Matter Physics, Ph.D., Computational Physics, Utah State University.

DRAVER, Christian (2010); Lecturer. Faculty, Physics; B.S., Physics/Astronomy, M.S., Physics, Brigham Young University.

DRAVER, Matthew (2008); Professor. Faculty, Behavioral Science; B.S., Psychology, Brigham Young University; M.A., Counseling, Ph.D., Counseling Psychology, University of Texas at Austin.

DUFFIN, Matthew (2008); Associate Professor. Department Chair, Criminal Justice/Law Enforcement; B.S., Business Management, J.D., Brigham Young University; LL.M., Military/International Contracts Law, United States Army Judge Advocate General’s School.

DUNKLEY, Paul (2013); Lecturer. Faculty, Engineering Technology; BSEE, Weber State University.

DUNLOP, David (2014); Lecturer. Faculty, Engineering Technology; B.S., Mechanical Engineering, M.M.E., Ph.D. (ABD), University of Utah.

DURNEY, A.T. (2001); Associate Professor. Faculty, Computer Science; B.S., Computer Science, University of Utah; M.S., Computer Science, Stanford University; Ph.D., Computer Science, University of Oregon.

DUTTAGUPTA, Chitralekha (2008); Associate Professor. Faculty, Basic Composition; B.A., English, Calcutta University; M.A., Ph.D., English, Jadavpur University; MTESL (Master’s in Teaching English as a Second Language), Ph.D., Rhetoric/Composition and Linguistics, Arizona State University.

EASTMAN, Adam (2014); Lecturer. Faculty, History & Political Science; B.A., History, Utah Valley State College; M.A., History, Brigham Young University; Ph.D., History, University of Oklahoma.

ECKSTEIN, Grant (2014); Lecturer. Faculty, English Language Learning; B.A., Linguistics, M.A., TESOL, Brigham Young University; M.A., Ph.D., Linguistics, University of California, Davis.

ECKTON, Darin (2011); Assistant Professor. Faculty, Student Leadership & Success Studies; B.A., Spanish Teaching/Physical Education Coaching, M.S., Sociology, Ed.D., Educational Leadership & Foundations, Brigham Young University.

EGGERTSEN, Lars (2008); Associate Professor. Faculty, Behavioral Science; B.S., Family Science, Brigham Young University; M.S.W., Loma Linda University; Ph.D., Social Work, University of Utah.

EL EZZI, Asmanah (2009); Professor. Faculty, Chemistry; B.S., Chemistry, Al-Fateh University. Tripoli, Libya; Ph.D., Biological Chemistry, Rennes I University, Rennes, France.

EL SAIDI, Mohammed (2008); Professor. Faculty, Finance & Economics; B.Sc., Applied Mathematics and Education, M.A., Applied Mathematics and Psychology, B.Sc., Pure Mathematics, The University of Tanta; M.Sc., Mathematical Statistics, University of Iowa; Ph.D., Mathematics, University of Memphis; Management Development Program Certificate, Harvard Graduate School of Education, Harvard University.

ELDRIDGE, Bryan (1986); Professor. Faculty, Languages & Cultures; Coordinator, Deaf Studies, Interdisciplinary Studies Program; B.A., English, M.A., Linguistics, Brigham Young University; Ph.D., Linguistic Anthropology, University of Iowa.

ELLIOTT, Betty (2011); Assistant Professor. Faculty, Nursing; B.S.N., Nursing, Brigham Young University; M.S.N., Nursing, University of Utah.

ELMORE, Rick (2015); Lecturer. Faculty, Philosophy & Humanities; B.A., Philosophy & Religion, Appalachian State University; M.A., Ph.D., Philosophy, DePaul University.

EMERSON, Steven (2008); Associate Professor. Faculty, Earth Science; B.S., Mathematics, Ohio State University; M.A., Geology, Princeton University; Ph.D., Geophysics, Cornell University.

ENGLAND, Lynn (2007); Lecturer. Faculty, History & Political Science; B.A., M.A., Philosophy, University of Utah; Ph.D., Sociology, University of Pittsburgh.

ENGLEHARDT, Elaine (1980); Distinguished Professor. Faculty, Philosophy & Humanities; B.A., Journalism, M.A., Communications, Brigham Young University; Ph.D., Communications, University of Utah.
GAMESAN, Kavita (2015); Assistant Professor. Faculty, Computer Science; B.S., Computer Science, University of Teknologi Malaysia; M.S., Computer Science, University of Southern California, Los Angeles; Ph.D., University of Illinois at Urbana-Champaign.

GARCIA, Elena (2013); Assistant Professor. Faculty, Basic Composition; B.A., M.A., English, Western Michigan University; Ph.D., Rhetoric and Writing, Michigan State University.

GARDNER, S. (2012); Professional in Residence. Faculty, Marketing; B.A., Political Science, Brigham Young University; M.B.A., Brigham Young University.

GARDNER, Douglas (2008); Associate Professor. Faculty, Student Leadership & Success Studies; A.A., Psychology, Brigham Young University-IDaho; B.S., Family and Human Development, Brigham Young University; M.A., Education, California State University, Bakersfield; Ph.D., Education, University of Illinois at Urbana-Champaign.

GERBER, Lindsey (2013); Assistant Professor. Faculty, Developmental Mathematics; B.S., M.S., Mathematics, Tarleton State University; Ph.D., Mathematics, Texas State University.

GIBSON, Stephen (2001); Associate Professor. Faculty, English & Literature; B.A., English, Brigham Young University; M.A., Creative Writing and Literature, Purdue University; Ph.D., Creative Writing and Literature, University of Houston.

GILMORE, Gloria (2006); Associate Professor. Faculty, Languages & Cultures; B.A., M.A., French, Ph.D., Languages and Literature, University of Utah.

GLAZIER, Keri (2012); Lecturer. Faculty, Elementary Education; B.A., Elementary Education, Southern Utah University; M.Ed., Education, Brigham Young University.

GLENND, Lowell (1999); Associate Professor. Department Chair, Finance & Economics; Faculty, Business Graduate Studies; B.S., Public Administration/Political Science, M.B.A., Brigham Young University; Ph.D., Economics, The George Washington University.

GODDARD, Todd (2013); Assistant Professor. Faculty, English & Literature; B.A., English & American Literature; M.A., English, University of Wisconsin; J.D, University of Connecticut; PhD (ABD), English, University of Wisconsin.

GOLDEN, Tracy (2012); Assistant Professor. Faculty, Behavioral Science; B.A., Environmental Studies, Brown University; M.Ed., Psychology, Ph.D. (ABD), Social Work, University of Utah.

GOODE, Michael (2013); Assistant Professor. Faculty, History & Political Science; B.A., Business Administration, Goshen College; M.A., Ph.D., History, University of Illinois at Chicago.

GOODWIN, Benjamin (2014); Lecturer. Faculty, Basic Composition; B.A., English Studies, Elon University; M.A., Rhetoric & Communication, Michigan State University.

GORDON, Philip (1999); Associate Professor. Faculty, Communication; B.A., M.A., Ph.D., Speech Communications, University of Illinois.

GORELICK, Nathan (2010); Assistant Professor. Faculty, English & Literature; B.A., Sociology, New York University; M.A., Comparative Literature, State University of New York, Buffalo.

GOSHERT, John (2001); Professor. Faculty, English & Literature; Coordinator, Interdisciplinary Studies, Interdisciplinary Studies Program; B.S., M.A., English, Sonoma State University; Ph.D., English, Purdue University.

GOSLIN, Christopher (2007); Associate Professor. Faculty, Student Leadership & Success Studies; B.A., Communication, M.Ed., Southern Utah University; Ph.D., Instructional Leadership & Academic Curriculum, University of Oklahoma.

GOUGH, Vance (2014); Assistant Professor. Faculty, Management; B.A., Political Science, M.B.A., Business Administration/Management; Ed.D., Education, University of Calgary, Alberta.

GRAY, Heather (2013); Lecturer. Faculty, Dance; Performance Artist

GRAY, Lawrence (1998); Professor. Faculty, Biology; B.S., Biology, Wichita State University; M.S., Zoology and Entomology, Colorado State University; Ph.D., Zoology, Arizona State University.

GREEN, Darrell (2012); Assistant Professor. Faculty, Aviation Science; B.S., M.B.A., Business Administration, Professional Aeronautics, Embry-Riddle Aeronautical University; J.D., Law, Texas Tech University

GREEN, James (2007); Associate Professor. Department Chair and Faculty, Aviation Science; B.S., Pre-Veterinary Medicine, Brigham Young University; M.A., Business Administration/Management, Webster College.
HARSTON, Stott (2000); Associate Professor, Faculty, Criminal Justice/Law Enforcement; B.A., Political Science, J.D., Brigham Young University.

HASARA, Matthew (2014); Lecturer, Faculty, Automotive Technology; B.S., Resource Management, Brigham Young University.

HATCH, W. (2004); Lecturer, Faculty, English & Literature; B.A., M.A., English, Brigham Young University.

HAWKES, Joshua (2015); Lecturer, Faculty, Marketing; B.S., Business Management; M.B.A., Utah Valley University.

HEATH, Melissa (2014); Lecturer, Faculty, Music; B.M., Vocal Performance, Brigham Young University; M.M., D.M.A., vocal performance, University of Utah.

HEHNLY, Marcy (2014); Assistant Professor, Faculty, Criminal Justice/Law Enforcement; B.S., Criminal Justice, M.S., Human Resource Management, Troy University; Ph.D., Human Services, Cappella University.

HEINY, Erik (2008); Associate Professor, Faculty, Mathematics; B.S., Mathematics and Statistics, Colorado State University; M.S., Statistics, Michigan State University; Ph.D., Applied Statistics, University of Northern Colorado.

HELDENBRAND, David (1992); Professor, Faculty, Computer Science; B.M.Ed., James Madison University; A.A., EDP Business, Montgomery College; M.S., Computer Science, Johns Hopkins University-Whiting School of Engineering.

HELQUIST, Joel (2007); Associate Professor, Faculty, Accounting; B.S., M.A., Accountancy, Brigham Young University; Ph.D., Management Information Systems, University of Arizona.

HENDERSON, Gae (2007); Associate Professor, Faculty, English & Literature; B.A., M.A., English, Brigham Young University; Ph.D., English – Rhetoric and Composition, University of Utah.

HENRY, Thomas (2008); Associate Professor, Faculty, Basic Composition; B.A., Creative Writing, M.A., English, Rhetoric and Composition, Northern Arizona University; Ph.D., Rhetoric and Technical Communication, Michigan Technological University.

HIATT, Vernon (2001); Associate Professor, Department Chair and Faculty, Automotive Technology; B.A., Industrial Arts and Technology; B.S., Industrial Technology, Southern Utah University.

HICKMAN, George (1996); Associate Professor, Faculty, Information Systems & Technology; B.F.A., Photography, Brigham Young University; M.S., Information Systems, San Diego State University.

HILL, Jessica (2012); Assistant Professor, Faculty, Behavioral Science; B.A., Psychology, Ph.D., Developmental Psychology, Florida State University; M.A., Visual Cognition and Human Performance, University of Illinois.

HILLMAN, Vance (1994); Professor, Faculty, Public & Community Health; B.S., Zoology, M.H.Ed., Community Health, Brigham Young University; A.D., Registered Nurse, Weber State University Ph.D., Community Health Education, Southern Illinois University.

HILST, Joshua (2010); Assistant Professor, Faculty, Basic Composition; B.A., English, The Master’s College; M.A., English-Composition and Rhetoric, The Ohio State University; Ph.D., Rhetorics, Communication and Informational Design, Clemson University.

HOFMAN, Dan (2012); Instructor, Faculty, Languages & Cultures; B.A., Communication Studies, Gallaudet University; M.S., Dean Studies/Deaf Education; Lamar University.

HOFHEINS, Nathan (2012); Artist in Residence. Faculty, Music; B.A., Music, M.M., Composition, Brigham Young University.

HOLT, Emily (2011); Assistant Professor, Faculty, Biology; B.A., Biology, Colorado College; M.S., Botany, University of Wyoming; Ph.D., Botany, Oregon State University.

HOOPER, Jennifer (2014); Lecturer, Faculty, Mathematics; B.A., Secondary Mathematics, Brigham Young University; M.A., Pure Mathematics, University of Utah; M.S., Mathematics University of Oregon; Ph.D., Mathematics, University of Georgia.

HOPOTATE-SITAKE, Moana (2013); Lecturer, Faculty, Chemistry; B.S., Chemistry, Weber State University; Ph.D., Biochemistry, Brigham Young University.

HORN, Matthew (2002); Associate Professor, Faculty, Chemistry; B.A., Chemistry, Lawrence University; Ph.D. Chemistry, University of Chicago.

HOUGH, Colleen (2008); Associate Professor, Faculty, Biology; B.S., Biological Sciences, University of California, Irvine; M.S., Microbiology, Washington State University; Ph.D., Developmental and Cell Biology, University of California, Irvine.
HOWARD, Carolyn (2005); Associate Professor. Faculty, Legal Studies; B.A., English, J.D., Brigham Young University.

HOWARD, Laurel (2003); Associate Professor. Faculty, Developmental Mathematics; B.S., M.S., Mathematics, Brigham Young University; Ed.D., Curriculum & Instruction, Utah State University.

HUFF, Steven (2012); Associate Professor. Faculty, Marketing; B.S., Computer Engineering, Utah State University; M.B.A., Ph.D., Business Administration, Brigham Young University.

HUFFMAN, Tammy (2010); Associate Professor. Faculty, Management; B.S., Management and Economics, Centre College of Kentucky; M.B.A., University of Tennessee Chattanooga; Ph.D., Business Administration, University of Kentucky.

HUNGERFORD, Hilary (2015); Assistant Professor. Faculty, Earth Science; B.A., Geography, University of Northern Colorado; M.A., Ph.D., Geography, University of Kansas.

HUNT, John (2012); Assistant Professor. Faculty, History & Political Science; Ph.D., Early Modern Italian and European History, The Ohio State University; M.A., Medieval and Renaissance History, University of Cincinnati; B.A., History, Indiana University Southeast.

HUNTER, Marie (1999); Associate Professor. Faculty, Nursing; B.S.N., Brigham Young University; M.S.N., Nursing Management/Education, University of Phoenix.

HUO, Yang (2002); Associate Professor. Faculty, Management; B.S., Business Administration, Brigham Young University; M.S., Hotel Administration, University of Nevada; Ph.D., Hospitality and Tourism Management, Virginia Tech.

HWANG, Jong (1989); Professor. Department Chair and Faculty, Mathematics; B.S., Math Education, Brigham Young University; Hawaii; M.A., Mathematics, Brigham Young University; Ph.D., Philosophy of Education, Mokpo National University, Korea.

I

ILIEVA, Vessela (2010); Associate Professor. Faculty, Elementary Education; B.S., Mathematics Education, Utah State University; M.S., Electronics Engineering, Technical University; M.Ed., English as a Second Language, Ph.D., Curriculum and Instruction, Utah State University.

IOANE, Ofa (2002); Associate Professor. Faculty, Developmental Mathematics; B.S., Mathematics, M.A., Mathematics Education, Brigham Young University.

J

JACKSON, Gregory (2014); Lecturer. Faculty, Integrated Studies; B.A., History, M.A., French Studies, Brigham Young University; Ph.D. (ABD), History, University of Utah.

JACKSON, TeriSue (2008); Associate Professor. Faculty, Public & Community Health; B.S., Community Health, M.S., Public Health, Brigham Young University; Ph.D., Health Promotion and Education, University of Utah.

JARASHOW, Benjamin (2009); Lecturer. Faculty, Languages & Cultures; B.A., M.A., Deaf Studies, Gallaudet University.

JARVIS, John (1992); Associate Professor. Faculty, Developmental Mathematics; B.S., Mathematics/Statistics, M.S., Applied Mathematics with Statistical Emphasis, Northern Arizona University.

JASPERON, Jill (1997); Associate Professor. Faculty, Legal Studies; A.A., General Education, Ricks College; B.A., Drama Education, J.D., J. Reuben Clark College of Law, Brigham Young University.

JAY, Sandy (2011); Assistant Professor. Faculty, Elementary Education; B.S., Elementary Education, M.S., Curriculum & Instruction, Oklahoma State University; Ph.D., Elementary Education, Florida State University.

JENNE, Stanley (2006); Professor. Department Chair, Accounting; Faculty, Business Graduate Studies; Ph.D., Accounting, University of Illinois at Urbana-Champaign; M.S., Accounting, Colorado State University; B.S., Accounting, Weber State College. Certified Public Accountant, Certified Fraud Examiner.

JENSEN, Brian (2007); Associate Professor. Faculty, Art & Visual Communications; B.S., Art & Secondary Education Composite, Southern Utah University; M.F.A., Ceramics, Edinboro University of Pennsylvania.

JENSEN, Douglas (2000); Associate Professor. Faculty, Languages & Cultures; B.A., Spanish, M.A., Languages and Literature, University of Utah; Ph.D., Spanish American Literature, University of Iowa.

JENSEN, Ellis (2011); Assistant Professor. Faculty, Exercise Science & Outdoor Recreation; B.S., Molecular Biology, Brigham Young University; M.S., Molecular Biology, Ph.D., Bioenergetics, East Carolina University.

JENSEN, Francine (2012); Assistant Professor. Faculty, Nursing; A.A.S., Nursing, Piedmont Virginia Community College; B.S., Zoology, Brigham Young University; M.S.N., Nursing Education; George Mason University.

JENSEN, Joseph (2009); Professor. Faculty, Physics; B.S., Astronomy, California Institute of Technology; M.S., Ph.D., Astronomy, University of Hawaii.

JENSEN, Michael (2001); Associate Professor. Faculty, Student Leadership & Success Studies; B.A., Speech Communication, Utah State University; M.Ed., Educational Leadership, Brigham Young University.

Ji, Xiao (2008); Associate Professor. Faculty, Mathematics; B.A., Mathematics, Hubel Education University; M.S., Statistics, Stephen F. Austin State University; Ph.D., Mathematics, Texas Tech University.

JOHN, Cameron (1997); Associate Professor. Faculty, Behavioral Science; B.S., Psychology, Weber State University; Ph.D., Educational Psychology, University of Arizona.

JOHNSON, Benjamin (2013); Assistant Professor. Faculty, Student Leadership & Success Studies; B.A., M.A., History, Brigham Young University; M.A., Education, Ph.D., Philosophy, Ohio State University.

JOHNSON, Jamie (2015); Assistant Professor. Faculty, Dance; B.A., English, B.F.A., Ballet, University of Utah; M.F.A., Dance, University of Washington.

JOHNSON, Steven (2000); Associate Professor. Faculty, Accounting; B.S., Accounting, M.A., (Federal taxation emphasis), Brigham Young University; Ph.D., Accounting, Virginia Polytechnic Institute.

JORGENSEN, Marcus (2007); Associate Professor. Faculty, Developmental Mathematics; B.S., Ocean Engineering, U.S. Coast Guard Academy; M.A., Liberal Studies, Wesleyan University; M.S., Instructional & Performance Technology, Boise State University.

JORGENSEN, Robert (2013); Sr. Professional In Residence. Faculty, Information Systems & Technology; Faculty, Information Systems & Technology Graduate Studies; B.S., Integrated Studies, Utah Valley University; M.S., Information Systems, University of Utah.

K

KABAMBA, Patience (2015); Assistant Professor. Faculty, Behavioral Science; B.A., Philosophy, Centre Seves Jesuit College; M.A., Developmental Studies, University of Natal Durban, So. Africa; Ph.D., Anthropology, Columbia University.

KAMALI-SARVESTANI, Reza (2012); Assistant Professor. Faculty, Computer Science; Ph.D., Engineering, M.S., Electrical Engineering, University of Alabama; M.Sc., Electrical and Electronics Engineering, Guilan University; B.S., Electrical and Electronics Engineering, Shiraz University.

KANG, Mi (2011); Assistant Professor. Faculty, Elementary Education; B.A., M.Ed., Korean Language and Literature Education, Chonbuk National University; M.S., Educational Leadership, University of Oregon; Ph.D., Curriculum and Instruction, University of Wisconsin-Madison.

KASSEL, Bobbi (2014); Assistant Professor. Faculty, Criminal Justice/Law Enforcement; B.S., Criminal Justice, Utah Valley University; M.Ed., Instructional Design, University of Utah.

KEELE, Reba (2003); Professor. Faculty, Public & Community Health; B.S., Speech and Drama, M.A., Rhetoric and Public Address; Ph.D., Rhetoric and Public Address, Purdue University.

KELLER, David (2003); Associate Professor. Faculty, Nursing; M.S., Psychiatric Nursing, Brigham Young University.

KENDALL, Rodney (1981); Professor. Faculty, Engineering Graphics & Design Technology; A.A.S., Electronics, Utah Technical College; B.S., Electronics, M.S., Computer-Integrated Manufacturing, Brigham Young University.

KERR, Lydia (2011); Assistant Professor. Faculty, English & Literature; B.A., English Literature, The Florida State University; M.A., Ph.D. (ABD), Comparative Literature, State University of New York.

KIA, Amir (2006); Professor. Faculty, Finance & Economics; M.A., Mathematical Economics and Econometrics, University of Ottawa; Ph.D., Economics, Carleton University, Ottawa, Canada.

KIRSI, Jorna (2001); Professor. Faculty, Biology; B.S., Zoology, M.S., Ph.D., Microbiology, Brigham Young University.

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Administration and Faculty

KNIght, Dianne (2008); Associate Professor. Department Chair and Faculty, Dental Hygiene; B.S., Dental Hygiene, Weber State College; M.B.A., Marketing, Cal Poly Pomona.

Knowlton, David (2002); Professor. Faculty, Behavioral Science; B.A., Anthropology, University of Utah; M.A., Ph.D., Anthropology, University of Texas.

Kopp, Olga (2003); Associate Professor. Faculty, Biology; Ph.D., Botany, University of Tennessee.

Krebs, Cynthia (1988); Professor. Faculty, Information Systems & Technology; B.S., M.S., Business Education, Utah State University.

Kuddus, Ruhul (2003); Associate Professor. Faculty, Biology; B.S., Biology, Rajendra College of the University of Dhaka, Dhaka Bangladesh; M.S., Zoology, University of Dhaka, Dhaka Bangladesh; M.S., Biology, George Mason University; Ph.D., Molecular Genetics and Biochemistry (Mirobiology), University of Pittsburgh.

Kunakemakor, Numsiri (2004); Associate Professor. Faculty, Secondary Education; Coordinator, Gender Studies, Interdisciplinary Studies Program; B.A., English, University of California, Santa Barbara; M.A., Multicultural & International Education, University of San Francisco; M.A., English, Sonoma State University; Ph.D., Comparative Literature, Purdue University.

Kupka, Bernd (2011); Associate Professor. Faculty, Management; B.A., Communication, University of Hawaii at Hilo; M.S., Corporate & Professional Communication, Radford University; Ph.D., Management, University of Otago.

L.

Lamarche, Pierre (2000); Professor. Faculty, Philosophy & Humanities; B.A., Physics, University of Toronto; M.A., Ph.D., Philosophy, University of Texas.

Lambert, Lisa (2007); Associate Professor. Faculty, Student Leadership & Success Studies; B.A., Educational Psychology, M.B.A., Organizational Behavior & Strategy, Brigham Young University.

Larsen, Merilee (2013); Lecturer. Faculty, Public & Community Health; B.S., Community Health, Utah Valley University; M.P.H., Health Education, Loma Linda University.

Lee, Christopher (2011); Lecturer. Faculty, English & Literature; B.A., History, M.S., American Studies in English, Utah State University.

Lee, KC (2014); Lecturer. Faculty, Mathematics; B.S., M.S., Statistics, Brigham Young University.

Leick, Ryan (2011); Assistant Professor. Faculty, Aviation Science; B.S., Aviation Business Administration, Embry-Riddle Aeronautical University; Ph.D., Air Transport Management, Cranfield University.

Lentz, Mark (2013); Assistant Professor. Faculty, History & Political Science; B.A., History, Nebraska Wesleyan University; M.A., Colonial Latin, Tulane University.

Leonard, Todd (2007); Associate Professor. Department Chair and Faculty, Culinary Arts Institute; A.A., Culinary Arts, Tyson, University.

Lewis, Scott (1999); Professor. Faculty, Mathematics; B.S., M.S., Mathematics, Brigham Young University; Ph.D., Mathematics, Montana State University.

Li, Ya (1990); Professor. Faculty, Mathematics; B.S., Mathematics, University of Science and Technology of China; Ph.D., Mathematics, University of Utah.

Liang, Jingdong (2002); Associate Professor. Faculty, Communication; B.A., English, People's University of China; M.A., Journalism, Graduate School of Chinese Academy of Social Sciences; Ph.D., Communications, University of Utah.

Liang, Samuel (2011); Associate Professor. Faculty, Philosophy & Humanities; Coordinator, Chinese Studies, Interdisciplinary Studies Program; B.A., Architecture, Anhui Architectural Industry Institute; M.A., History of Architecture, Tongji University, Shanghai; Ph.D., Art History, Binghampton University.

Lieberwirth, Claudia (2013); Assistant Professor. Faculty, Behavioral Science; B.S., Biology, Research Psychology, University of Michigan; Ph.D., Neuroscience, Florida State University.

Lindley, Betsy (2006); Associate Professor. Faculty, Exercise Science & Outdoor Recreation; B.S., Chemistry, Health & Physical Education, Berry College; M.Ed., Physical Education, Texas A&M University; Ph.D., Education, University of Minnesota.

Lindquist, Chris (2014); Lecturer. Faculty, Emergency Services; B.S., Behavioral Science, University of Utah; M.B.A., Business Administration, Westminster College; Ph.D. (ABD), Grand Canyon University's College of Doctoral Studies.

Lindstrom, Craig (2013); Lecturer. Faculty, Information Systems & Technology; B.S., Business Management, University of Utah; M.S., Business Information Systems, Utah State University.

Linfeld, J. (1998); Associate Professor. Department Chair and Faculty, Construction Technologies; B.S., Technology Management, Utah Valley State College.

Ling, Jun (Michael) (2002); Professor. Faculty, Mathematics; B.S., Mathematics, Jiangsu University, China; M.A., Mathematics, Ph.D., Mathematics, State University of New York at Buffalo; Ph.D. Candidate, Zhejiang University.

Lisonbee, Dennis (1999); Associate Professor. Faculty, Digital Media; B.S., University Studies; M.A., Communications, Brigham Young University.

Li, Li (2013); Assistant Professor. Faculty, Digital Media; B.Eng., Computer Science, Shandong University; Ph.D., Computer Science, University of Alabama.

Loftus, Jane (2005); Associate Professor. Faculty, Developmental Mathematics; B.S., Mathematical Sciences, University of Paisley; M.S., Mathematics, Ph.D. (ABD), Electrical Engineering, Brigham Young University.

Lopez-Aguilera, Ana (2014); Assistant Professor. Faculty, Languages & Cultures; B.A., English, M.A., Spanish, University of Malaga; M.A., Ph.D., Spanish, University of Nebraska.

Lovell, Travis (2010); Assistant Professor. Faculty, Art & Visual Communications; B.F.A., Brigham Young University; M.F.A., Maine Media College.

Low, Todd (1990); Professor. Faculty, Automotive Technology; A.A.S., Utah Technical College; A.S., Automotive, Utah Valley Community College; B.S., Industrial Education, Brigham Young University; M.S., Utah State University.

Luke, Chad (2013); Lecturer. Faculty, English Language Learning; A.A., General Studies, Ricks College; B.A., M.A., Spanish, Brigham Young University.

Lundahl, Diana (2014); Assistant Professor. Faculty, Engineering Technology; B.S., Electronics Engineering, Weber State University.

M

Mackay, Brian (2013); Lecturer. Department Chair, English Language Learning; B.A., German, M.A., German Literature, ESL, Brigham Young University.

Maclean, John (2014); Lecturer. Faculty, Technology Management; B.S., Chemical Engineering, University of Utah; M.L.S., Interdisciplinary Technology, Eastern Michigan University; Ph.D., Business, Capella University.

Madsen, Susan (2002); Professor. Faculty, Management; B.A., Speech Communication Education, Brigham Young University; M.S., Teaching, Exercise Science/Fitness, Portland State University; Ed.D., Human Resource Development, University of Minnesota.

Maksci, Kemal (2003); Associate Professor. Faculty, Exercise Science & Outdoor Recreation; B.A., M.A., Gazı University, Ankara, Turkey; Ph.D., Physical Education Teacher Education, University of Nebraska Lincoln.

Mandarino, Frank (2012); Lecturer. Faculty, Aviation Science; B.S., Aviation Administration, Indiana State University.

Manning, David (1992); Professor. Faculty, Engineering Graphics & Design Technology; A.A.S., Drafting Technology, Utah Valley Technical College; B.S., Technology Management, Utah Valley State College; M.Ed., Instructional Technology, Utah State University.

Marcial, Rachel (2012); Lecturer. Faculty, Developmental Mathematics; B.S., Mathematics, Millikin University; M.S., Mathematics, Illinois State University.

Markgraf-Jacobson, Amy (2004); Associate Professor. Faculty, Dance; B.S., Dance, Utah State University; M.A., Dance, Brigham Young University; M.F.A., Modern Dance, University of Utah.

Marrott, Deborah (1992); Professor. Department Chair and Faculty. Basic Composition; B.A., Basic Composition/English as a Second Language, M.A., English, Brigham Young University; Ph.D., Education, Culture, and Society, University of Utah.

Matheson, Philip (2001); Professor. Department Chair and Faculty, Physics; B.S., Physics, Arizona State University; Ph.D., Physics, Brigham Young University.

Maugham, Dale (2009); Associate Professor. Department Chair, Nursing; Faculty, Nursing Graduate Studies; A.S., B.S., Nursing, M.S., Health Promotion, Brigham Young University; Ph.D., Health Promotion & Education, University of Utah.

Maxfield, Jeff (1989); Professor. Faculty, Emergency Services; A.A.S., Fire Science, Utah Valley University; B.S., Business Administration, University of Phoenix; M.P.A., Public Administration, Brigham Young University; Ed.D., Adult Education/ Curriculum & Instruction, Utah State University.
MAXFIELD, Neal (2009); Lecturer. Faculty, Marketing; B.S., Accounting and Management, M.B.A., University of Utah.

MCADAMS-JONES, Dianne (2006); Associate Professor. Faculty, Nursing; B.S., Nursing, Tuskegee University; M.Ed., Education Management, M.S., Nursing Education, Westminster; Ed.D., Health Care Professions, College of Saint Mary.

MCARTHUR, David (2003); Associate Professor. Department Chair, Management; Faculty, Business Graduate Studies; B.S., Marine Engineering, United States Merchant Marine Academy; M.B.A., International Business and Finance, M.A., International and Area Studies (emphasis in Asian Studies), Brigham Young University; Ph.D., Business Administration, University of South Carolina.

MCCALL, Haven (2014); Professional In Residence. Faculty, Biology; B.S., Business Administration, Northern Arizona University; M.S., D.R.Sc., Regulatory Science, University of Southern California.

MCDONALD, Daniel (2011); Assistant Professor. Faculty, Information Systems & Technology; B.A., Accounting, Brigham Young University; M.S., Management Information Systems, Ph.D., Management, University of Arizona.

MCDONALD, Richard (1998); Professor. Faculty, English & Literature; B.A., English Literature, M.Ed., English Education, University of Florida; M.A., Ph.D., English Literature, University of South Florida.

MCGHIE, Shaunna (2002); Professor. Faculty, Exercise Science & Outdoor Recreation; B.S., Physical Education, M.A., Education, Ed.D., Physical Education, Brigham Young University.

MCINTIRE, Hank (2014); Lecturer. Faculty, Communication; B.A., Spanish Translation, B.S. Travel and Tourism, Brigham Young University; M.A., Communication, University of Utah.

MCKENNA, Hazel (1989); Professor. Faculty, Developmental Mathematics; B.S., Mathematics, University of Edinburgh; M.S., Mathematics, Ph.D., Instructional Science, Brigham Young University.

MCPHERSON, Kathryn (2000); Professor. Director, English & Literature; B.A., M.A., English, University of New Mexico; Ph.D., English, Emory University.

MEASOM, Gary (2000); Professor. Faculty, Nursing; A.S., B.S., Nursing, M.S., Nursing, Clinical Cardiology, Brigham Young University; Ph.D., Exercise Physiology, University of New Mexico.

MERCADO, Gary (2012); Assistant Professor. Faculty, Finance & Economics; B.S., Production Engineering, Universidad Privada Boliviana, Bolivia; M.B.A., McNeese State University; M.S., Ph.D. (ABD), Applied Statistics, University of Alabama.

MERRIN, Christine (1992); Professor. Faculty, Mathematics; B.S., Mathematics, University of Maryland; M.S., Ph.D., Mathematics, New Mexico State University.

MERRIN, Stephen (1996); Professor. Faculty, Mathematics; B.A., Mathematics, University of Colorado; M.A., Mathematics, University of Maryland; Ph.D., Mathematics, New Mexico State University.

Mgonja, Thomas (2012); Assistant Professor. Faculty, Developmental Mathematics; B.S., Mathematics, Idaho State University; M.S., Financial Mathematics, Florida State University.

Miller, Douglas (1996); Professor. Faculty, Management; B.S., Hospitality Management, Brigham Young University, Hawaii; M.B.A., Chaminade University; Ph.D., University of Utah.

Miller, Duane (1992); Professor. Faculty, Marketing; B.S., M.S., Business Education, Brigham Young University.

Milligan, Patrick (2015); Professional In Residence. Faculty, Management; B.S., Business Management, University of Utah; M.A., Organizational Leadership, Gonzaga University.

Mills, Paul (1982); Professor. Faculty, Physics; B.S., M.S., Physics, Brigham Young University.

Minaie, Afsehn (2001); Professor. Faculty, Computer Science; B.S., M.S., Ph.D., Electrical Engineering, University of Oklahoma.

Minch, Michael (2001); Professor. Faculty, Philosophy & Humanities; Coordinator, Peace and Justice Studies, Interdisciplinary Studies Program; B.A., History, Grand Canyon College; M.A., Political Philosophy, Ph.D., Political Science, University of Utah; M. Divinity, The Eastern Baptist Theological Seminary.

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Administration and Faculty

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TUFT, Elaine (2006); Associate Professor. Faculty, Elementary Education; B.A., Elementary & Early Childhood Education, M.A., Elementary Education, Utah State University; Ph.D., Curriculum, Teaching & Educational Policy, Michigan State University.

TWYMAN, Cherie (2008); Lecturer. Faculty, Marketing; B.A., English Education, M.A., Teaching English as a Second Language, Brigham Young University.

ULLOA, Sara (2003); Associate Professor. Faculty, Languages & Cultures; B.A., Spanish Translation and Communications, M.A., Spanish Linguistics, Brigham Young University.

V

VAN BUREN, Renee (1995); Professor. Faculty, Biology; B.S., M.S., Botany, Brigham Young University; Ph.D., Botany, Arizona State University.

VAN FRANKENHUIJSEN, Machiel (2003); Professor. Faculty, Mathematics; Ph.D., Mathematics, Katholieke Universiteit Nijmegen.

VASELIEVSKA, Violeta (2010); Associate Professor. Faculty, Mathematics; B.S., M.S., Mathematics, Ss. Cyril and Methodius University; Ph.D., Mathematics, The University of Tennessee.

VINCENT, Marcus (2005); Associate Professor. Faculty, Art & Visual Communications; B.A., Fine Arts, M.F.A., Painting and Drawing, Brigham Young University.

VOGEL, Charles (1995); Associate Professor. Faculty, English & Literature; B.A., English Literature, M.A., English, Brigham Young University; Ph.D., English, University of California.

VOGEL, Sandra (1994); Associate Professor. Faculty, English & Literature; B.A., M.A., English, Brigham Young University.

W

WADDOUPS, Stacy (1993); Associate Professor. Faculty, Student Leadership & Success Studies; B.S., Social Studies Composite, M.Ed., Elementary Education/Reading Specialist, Brigham Young University.

WAGER, Jans (1997); Professor. Faculty, English & Literature; B.A., Distributed Studies (Communication Emphasis), University of Colorado; M.A., German, Ph.D., Comparative Literature, University of California.

WAHLQUIST, Jenivee (1993); Associate Professor. Faculty, English & Literature; B.A., English, M.A., American Literature, Brigham Young University.

WAITE, Bryan (2007); Associate Professor. Faculty, Secondary Education; B.A., Spanish, University of Texas; M.A., Spanish Education, Ph.D., Educational Equity & Cultural Diversity, University of Colorado.

WALKER, Christine (1992); Professor. Faculty, Mathematics; A.S., Mathematics, Ricks College; B.A., M.A., Mathematics Education, Brigham Young University; Ed.D., Curriculum and Instruction, Utah State University.

WALKER, Kent (2007); Assistant Professor. Faculty, Automotive Technology; A.A.S., Auto/Diesel, Utah Technical College; B.S., Business, Brigham Young University; M.Ed., Instructional Technology, Utah State University.

WALLACE, Jeb (2010); Assistant Professor. Faculty, Music; B.M., Horn Studies, Southern Methodist University; M.M., Horn Studies, Cleveland Institute of Music; D.M.A., Horn Studies, Stoney Brook University.

WALLACE, Lorraine (2005); Associate Professor. Faculty, English & Literature; B.A., Secondary Education, Idaho State University; M.Ed., Educational Leadership, Brigham Young University.

WALSH, Robert (2002); Professor. Faculty, Public & Community Health; B.S., Brigham Young University; M.H.E., Health Education, Idaho State University; Ed.D., Health Education, University of Idaho.

WALTHER, Suzanne (2011); Assistant Professor. Faculty, Earth Science; B.A., Political Science, University of California; M.S., Environmental Studies, University of Virginia; M.S., Geology, Ph.D., Geography, University of Oregon.

WANG, Weihong (2012); Assistant Professor. Faculty, Earth Science; B.Sc., Geophysics, M.Sc., Environmental Geology, Jianghan Petroleum University; M.Sc., Geology, Iowa State University; Ph.D., Marine Science, University of South Carolina.

WANGSGARD, Nichole (2015); Associate Professor. Faculty, Elementary Education; B.S., Exercise Science, Weber State University; M.S., Special Education, University of Utah; Ph.D., Special Education, University of Northern Colorado.

WARCUP, Robert (2009); Associate Professor. Faculty, Construction Technologies; B.S., Business Management and Spanish, Brigham Young University; M.B.A., University of Nevada.

WARMBIEH, H. (2014); Lecturer. Faculty, Management; B.S., Computer Science, Wilhelm-Buchner Hochschule, Germany; M.B.A., Business, Utah Valley University.

WARNE, Russell (2011); Assistant Professor. Faculty, Behavioral Science; B.S., Psychology, Brigham Young University; Ph.D., Educational Psychology, Texas A&M University.

WASDEN, Cary (2015); Visiting Professor. Faculty, Finance & Economics; B.S., Zoology, M.P.A., Business Development, Brigham Young University; Ph.D. (ABD), International Finance & Economics, Ohio State University.

WASSERBAECH, Steven (2002); Professor. Faculty, Physics; B.S., Mathematics, B.S., Physics, University of Utah; Ph.D., Physics, Stanford University.

WATERS, Sandie (2008); Associate Professor. Faculty, Elementary Education; B.A., Sociology, Pre-Medicine, St. Mary’s University; M.A., Instructional Systems Technology, Indiana University; Ph.D., Instructional Technology, Utah State University.

WATHEN, Mark (2014); Assistant Professor. Faculty, Chemistry; B.S., Chemistry, M.S., Organic Chemistry, Utah State University; Ph.D., Chemical Education, University of Northern Colorado.

WAYMAN, Mina (2003); Associate Professor. Faculty and Faculty, Nursing; B.S.N., Nursing, M.S.N., Geriatric Nurse Practitioner, University of Utah.

WEBBER, Diana (2014); Lecturer. Faculty, English & Literature; B.A., English Literature, Birmingham City University; M.A., Victorian Literature, University of Leeds.

WEBBER, Paul (2012); Assistant Professor. Faculty, Physics; B.S., Physics & Mathematics, Bemidji State University; M.S., Physics, Ph.D., Experimental Particle Physics, University of Colorado.

WEIGEL, Christine (2002); Professor. Faculty, Philosophy & Humanities; B.A., Philosophy, B.M., Music Performance, Lawrence University; M.A., Ph.D., Philosophy, Temple University.

WELBORN, Curtis (2005); Associate Professor. Faculty, Computer Science; M.S., Computer Science, University of Texas at El Paso; Ph.D., Computer Science, Texas Tech University.

WELLINGTON, Janis (2002); Associate Professor. Faculty, English & Literature; B.A., English, Glassboro State College; M.A., English (Creative Writing), Ph.D., English, University of New Mexico.

WESTOVER, Jonathan (2008); Associate Professor. Faculty, Management; B.S., Sociology (emphasis in Research and Analysis, Business Minor, Korean Minor), M.P.A., Human Resources and Organizational Behavior, Brigham Young University; M.S., Sociology, Ph.D. (ABD), Sociology, University of Utah.

WHALEY, Brian (2003); Associate Professor. Faculty, English & Literature; B.A., History, University of California at Santa Barbara; M.A., English, University of Montana; Ph.D., English, University of Oregon.

WHALEY, Wayne (1991); Professor. Faculty, Biology; B.S, Ph.D., Zoology, Brigham Young University; M.S., Wildlife Ecology, University of Arizona.
Administration and Faculty

WHITE, Keith (2005); Associate Professor. Department Chair and Faculty, Developmental Mathematics; B.S.; M.S., Mechanical Engineering, Brigham Young University.

WHYTE, Stephen (2010); Assistant Professor. Faculty, Communication; B.A., Political Science, M.P.A., Public Administration, Brigham Young University.

WIBERG, Darren (2000); Associate Professor. Faculty, Developmental Mathematics; B.A., Mathematics, Teaching Secondary, M.A.T., Mathematics, Central Washington University.

WILKEY, Patrick (2007); Associate Professor. Faculty, Art & Visual Communications; B.F.A., M.F.A., Graphic Design, Utah State University.

WILLIAMS, Brice (2001); Associate Professor. Faculty, Aviation Science; B.S., Engineering Science and Technology, Brigham Young University; Commercial, Instrument, Flight Instructor, and Ground Instructor Rating, Ross School of Aeronautics; M.Ed., Utah State University.

WILLIAMS, Julie (2015); Assistant Professor. Faculty, Secondary Education; B.S., Sociology, M.Ed., Secondary Education, Texas A & M University; Ph.D., Curriculum & Instruction, University of North Texas.

WILLIAMS, Lynda (2011); Lecturer. Faculty, Secondary Education; B.S., Liberal Studies, Westmont College; M.S., Curriculum & Instruction, California State University, Fullerton.

WILLIAMS, Scott (2007); Associate Professor. Faculty, Exercise Science & Outdoor Recreation; B.A., German Studies, Weber State University; M.S., Recreation, M.S., Business Management, Ph.D. (ABD), Health & Human Performance, University of Florida.

WILSON, Bruce (2001); Associate Professor. Faculty, Chemistry; B.S., M.S., Chemistry (minor Physics), Brigham Young University; Ph.D., Chemistry, Texas A&M University.

WILSON, David (2001); Associate Professor. Faculty, History & Political Science; B.A., History and Classical Antiquities, M.A., Classics, University of Kansas; Ph.D., U.S. History, Brigham Young University.

WILSON, Don (1995); Associate Professor. Faculty, Automotive Technology; A.A.S., Collision Repair Technology, B.S., Technology Management, Utah Valley State College; M.Ed., Instructional Technology, Utah State University.

WILSON, R. (2001); Associate Professor. Faculty, Culinary Arts Institute; A.O.S., The Culinary Institute of America, Certified Executive Chef.

WILSON-ASHWORTH, Heather (2000); Professor. Faculty, Biology; B.A., Math Education, Ph.D., Physiology and Anatomy, Brigham Young University.

WINANS, Adrienne (2015); Assistant Professor. Faculty, History & Political Science; B.A., History, University of Chicago; M.A., World History, New York University; Ph.D. (ABD), History, Ohio State University.

WINKELMAN, Paul (2013); Assistant Professor. Faculty, Dance; B.A., Elementary Education, M.S., Theatre Arts & Film, Brigham Young University; M.S., Psychology/Counseling, University of Phoenix.

WISLAND, Michael (2003); Associate Professor. Faculty, Digital Media; B.S., M.S., Electrical Engineering, University of Missouri.

WITT, Christopher (2007); Assistant Professor. Faculty, Dance; B.S., Business Management, M.A., Dance, Brigham Young University.

WOMACK, Sue (2012); Assistant Professor. Faculty, Elementary Education; B.A., Child Development, M.A., Education, Educational Technology, California State University; Ph.D., Education Leadership & Foundations, Brigham Young University.

WORKMAN, Letty (2000); Associate Professor. Faculty, Marketing; B.A., Philosophy, University of Missouri-St. Louis; M.B.A., Marketing, Southern Illinois University-Carbondale; Ph.D., MIS/Marketing Education, Utah State University.

WORTHEN, Cherilyn (2011); Lecturer. Faculty, Music; B.M., Choral Music Education, M.M., Choral Conducting, Brigham Young University.

WRIGHT, Kristin (2010); Lecturer. Faculty, Secondary Education; B.S., Elementary Education, Weber State University, M.Ed., Special Education, College of New Jersey.

Y

YAMEN, Sharon (2013); Assistant Professor. Faculty, Legal Studies; B.A., Anthropology, State University of New York; J.D., Hofstra University.

YOAST, Tiffany (2011); Lecturer. Faculty, Student Leadership & Success Studies; B.S., English, Utah Valley University; M.S., Education, Nova Southeastern University.
Administration

GENERAL OFFICERS

- **President, Matthew S. Holland** (2009)
  - B.A., Political Science, Brigham Young University; M.S., Ph.D., Political Science, Duke University

- **Senior Vice President, Jeffery E. Olson** (2014)
  - B.A., English, J.D., Law, University of Utah; Ph.D., Stanford University

- **Vice President, Marc L. Archambault** (2010)
  - B.A., Physics, B.A., English, Saint Michaels College

- **Vice President, Val L. Peterson** (1988)
  - B.A., M.S., Strategic Studies, U.S. War College; M.A., Mass Communication, Ph.D., Educational Leadership, Brigham Young University

- **Vice President, Michelle O. Taylor** (1995)
  - B.Ed., Educational Psychology, Brigham Young University; M.S.W., L.C.S.W., M.P.A., Ph.D., Social Work, University of Utah

- **Vice President, Cameron K. Martin** (2012)
  - B.S., Political Science and Gerontology, M.P.A., Public Administration, Ph.D., Educational Leadership, Brigham Young University

- **Vice President, Planning, Budget, and Human Resources, Linda J. Makin** (1980)
  - B.S., Accounting, Utah Valley University; M.P.A., Brigham Young University

- **General Counsel Karen M. Clemes**
  - B.A., Comparative Literature, Brigham Young University; M.A., Humanities, Brigham Young University; J.D., California Western School of Law

PRESIDENT'S OFFICE

- **President, Matthew S. Holland** (2009)
  - B.A., Political Science, Brigham Young University; M.S., Ph.D., Political Science, Duke University

- **Chief of Staff, Assistant to the President, Fidel Montero** (2014)
  - Ed.D., Columbia Teachers College

- **Assistant to the President for Inclusion, Kyle A. Reyes** (2003)
  - B.S., Graphic Design, M.Ed., Educational Leadership, Brigham Young University; Ph.D., Educational Leadership and Policy, University of Utah

ACADEMIC AFFAIRS

- **Senior Vice President, Jeffery E. Olson** (2014)
  - B.A., English, J.D., Law, University of Utah; Ph.D., Stanford University

- **Associate Vice President, Academic Programs, Maureen Andrade** (2008)
  - B.A., TESL Graduate Certificate, Brigham Young University; M.A., University of Utah; Ed.D., University of Southern California

- **Associate Vice President, Academic Administration, Kathryn Brown** (2002)
  - B.A., History, Alma College; M.A., Ph.D., Russian History, Bowling Green State University

- **Associate Vice President, Engaged Learning, Frederick White** (2010)
  - B.A., Russian Language and Literature, The Ohio State University; M.A., Russian Literature, University of Kansas; Ph.D., Slavic Languages and Literature, University of Southern California

- **Assistant Vice President, Scholarship & Faculty Development, Richard Tafalla** (2013)
  - B.A., Psychology, Cal State University; M.S., Ph.D., Social Ecology, University of California

- **Dean, College of Humanities & Social Sciences David Yells** (1999)
  - B.A., Psychology, Bellevue University; M.A., Ph.D., Psychology, University of Nebraska

- **Interim Associate Dean, College of Humanities and Social Sciences, Steven Clark** (2000)
  - B.S., Psychology, Brigham Young University; M.A., Ph.D., Psychology, University of New Hampshire

- **Assistant Dean, College of Humanities & Social Sciences, Toni Harris** (2008)
  - B.S., Business Management, M.B.A., Business Administration, Almeda University
Administration and Faculty

- **Dean, College of Science & Health, Daniel Fairbanks** (2008)
  - B.S., Portuguese/Agronomy, Brigham Young University; M.S., Plant Breeding, University of Minnesota; Ph.D., Agronomy and Plant Genetics, University of Arizona

- **Associate Dean, College of Science & Health, Daniel Horns** (1997)
  - B.S., Applied Geophysics, UCLA; Ph.D., Geology (Tectons, Structural Geology), U.C. Davis

- **Associate Dean, College of Science & Health, Jason Slack** (2000)
  - B.A., Physical Education, Southern Utah University; M.S., Exercise Physiology, Brigham Young University; Ph.D., Exercise and Sport Science, University of Utah

- **Assistant Dean, College of Science & Health, Jim Murphy** (2014)
  - B.S., Music Education, M.Ed., Educational Psychology, Brigham Young University

- **Dean, College of Technology & Computing, Michael Savoie** (2013)
  - B.S., Mechanical Engineering, LA State University/A&M Baton Rouge; M.B.A., Nichols State University; Ph.D., Operations Management, University of North Texas

- **Associate Dean, College of Technology & Computing, Abraham Teng** (2002)
  - B.S., Naval Architecture, National Taiwan University; M.S., Ph.D., Mechanical Engineering, Brigham Young University

- **Associate Dean, College of Technology & Computing, Stanley Klemetson** (2011)
  - B.S., Civil Engineering, San Jose State University; M.S., Civil Engineering, University of Missouri; Ph.D., Civil Engineering, Utah State University

- **Interim Dean, College of Aviation & Public Services, Thomas Sturtevant** (2012)
  - A.S., General Studies/Fire Science, Georgia Military College; B.S., Applied Organizational Management, Tusculum College; M.P.A., Public Policy, Ed.D., Education, University of Tennessee

- **Associate Dean, College of Aviation & Public Services, TBD**

- **Dean, School of Education, Parker Fawson** (2013)
  - B.A., Elementary Education, Weber State University; M.Ed., Educational Administration, Ed.D., Reading, Brigham Young University

- **Associate Dean, School of Education, Stan Harward** (2006)
  - B.S., Elementary Education; M.S., Curriculum Development and Instruction, Ed.D., Reading, Brigham Young University

- **Dean, School of the Arts, K. Newell Dayley** (2011)
  - B.S., Music Education, Brigham Young University; M.M., Music Performance, University of Southern California; D.A., Music Performance & Pedagogy, University of Northern Colorado

- **Associate Dean, School of the Arts, Jim Godfrey** (2002)
  - B.F.A, Advertising Design; M.F.A., Graphic Design, Utah State University

- **Assistant Dean, Administration, School of the Arts, E. Linda Moore** (2002)
  - A.S., B.S., Behavioral Science, Utah Valley University; M.P.A., Brigham Young University

- **Dean, University College, Forrest Williams** (1994)

- **Associate Dean, University College, Talitha Hudgins** (2007)
  - B.A., History and Education, University of North Florida; M.A., Instructional Technology, Teaching and Learning, University of North Florida; Ph.D., Educational Technology in Teaching and Learning, University of Utah

- **Assistant Dean, University College, JessicaAwtrey** (2010)
  - B.S., Philosophy; Utah Valley University; M.P.A., Public Administration, University of Illinois-Springfield

- **Dean, Woodbury School of Business, Norman S. Wright** (2010)
  - B.S., Economics, M.P.A., Public Administration, Brigham Young University; M.A., Ph.D., Management, University of Pennsylvania

- **Associate Dean, Woodbury School of Business, Jacob Syrowsky** (2010)
  - B.A., Linguistics, M.S., Marriage, Family, and Human Development, Brigham Young University; Ph.D., Personal Financial Planning, Texas Tech University

- **Associate Dean, Woodbury School of Business, Lynn Adams** (2000)
  - B.S., Math-Science, Brigham Young University; M.B.A., Westminster College; Ph.D., Management, University of Phoenix

- **Assistant Dean, Woodbury School of Business, Mikki O’Connor** (1996)
  - B.A., Management, M.S., Organizational Management, University of Phoenix

- **Senior Director, Academic Outreach, Darrel Hammon** (2014)
  - B.A., M.A., English, Boise State University; Ed.D., University of Idaho

- **Senior Director, International & Multicultural Studies, Baldomero Lago** (2006)
  - B.A., Spanish, Utah State University; M.A., Spanish Pedagogy, Brigham Young University; Ph.D., Instructional Technology, Universidad de Madrid

- **Senior Director, Sponsored Programs, Curtis Pendleton** (1990)
  - M.S., Special Education, Utah State University; B.S., Family and Human Development and Psychology, Weber State University

- **Director, Library, Lesli Baker** (1998)
• M.Ed., Educational Technology, University of Missouri-Columbia; MLIS, Library and Information Science, Brigham Young University

• Director, Post-Award Compliance, Susan Thackeray (2008)
  • B.S., Multimedia Communication Technology, Utah Valley University; M.Ed., Instructional Technology, Utah State University

• Director, Academic Scheduling & Curriculum, Eva Bernfeld (2008)
  • B.A., M.A., English, Washington State University

• Director, Academic IT & Analytics, Laura Busby (2003)
  • A.S., Business Management, B.S., Information Technology, Utah Valley University

• Director, Academic Assessment & Program Review, Quinn Koller (2013)
  • B.S., Geography and Liberal Studies, Excelsior College; M.S., Higher Education, Kaplan University

• Director, Concurrent Enrollment, Ted Ungricht (1994)
  • B.S., Psychology, Utah State University; B.A., Mathematics, Bellevue College; M.S., School Psychology, Brigham Young University; Ed.D., Adult and Community Education, Montana State University

• Director, Program Completion, Tiffany Evans (2012)
  • B.S., M.Ed., Psychology, Utah State University

• Director, Innovation Center, Seth Gurell (2010)
  • B.S., English, M.S., Instructional Technology, Utah State University; Ph.D., Instructional Psychology and Technology, Brigham Young University

• Director, Internship Services, Marsha Haynes (2004)
  • A.S., Weber State University; B.S.G., Brigham Young University; M.Ed., California State University

• Director, Extended Studies, Ruth Gowans (2003)
  • B.S., Animal Science, M.S., Agricultural Education, Utah State University

• Director, Capitol Reef Station, Michael T. Stevens (2010)
  • B.S., Conservation Biology, Brigham Young University; M.S., Ph.D., Botany, University of Wisconsin-Madison

• Director, Center for Constitutional Studies, Rick Griffin (2005)
  • B.A., History, Brigham Young University; Ph.D., Education, Leadership, and Foundations; J.D., University of Mississippi

• Director, Center for the Study of Ethics, Brian Birch (1999)
  • B.S., M.S., Philosophy, University of Utah; Ph.D., Philosophy of Religion, Claremont Graduate School

• Director, Honors Program, Kate McPherson (2000)
  • B.A., M.A., English, University of New Mexico; Ph.D., English, Emory University

• Director, Office of Academic Research, Moh El-Saidi (2008)
  • B.S., Pure Mathematics, B.S., Applied Mathematics and Education, M.A., Applied Mathematics and Psychology, University of Tanta, Egypt; M.S., Mathematical Statistics, University of Iowa; Ph.D., Mathematics, University of Memphis

• Director, Service Learning, Eric Russell (2009)
  • A.A.S., Community College of Air Force; B.S., University of Phoenix; M.B.A., Fire Science, Grantham University; Ed.D., Grand Canyon University

• Director, Development/School of Business, Brad Mertz (2002)
  • B.S., M.P.A., Facilities Management, Brigham Young University

• Director, Career & Academic Counseling, Adam Black (2002)
  • B.S., Sociology and Criminal Justice, Southern Utah University; M.C./M.H.C., Mental Health Counseling, University of Phoenix

• Director, Academic Standards, Jan Klingman (2005)
  • B.A., Interior Design, Brigham Young University; M.A.Ed., School Counseling, University of Phoenix

DEVELOPMENT & ALUMNI RELATIONS

• Vice President, Marc L. Archambault (2010)
  • B.A., Physics, B.A., English, Saint Michaels College

• Senior Director, Alumni Relations, Jeri Allphin (2003)
  • J.D., Brigham Young University

• Director, Events & Communications, Jessica Ballard (2011)
  • B.A., M.P.C., Communication, Westminster College

• Assistant Director, Events & Communications, Vacant

• Director, Annual Giving, Justin Ferrell (2011)
  • B.S., Marriage, Family and Human Development, Brigham Young University
Administration and Faculty

- **Director, Development Services, Bart Jacobs** (1989)
  - A.S., Accounting, B.S., Business Management/Accounting, Utah Valley University; M.B.A., Accounting, Utah State University

- **Associate Vice President, Development, Vacant**

- **Director, National Development Outreach, Scott Paul** (2009)
  - B.S., Psychology, J.D., Law, Brigham Young University

- **Director, University Gift Planning, Cristina Pianezzola** (2000)
  - A.S., General Ed., Utah Valley University; B.A., Philosophy, Texas Tech.; J.D., Law, Brigham Young University

- **Assistant Director, Development Services - Data Management, Nilsen Septon** (2013)
  - B.S., Brigham Young University

- **Assistant Director, Development Services - Prospect Research, Julie Shumway** (2011)
  - B.S., Interdisciplinary Studies, Utah State University

- **Senior Director, Donor Relations & Scholarship Programs, Nancy Smith** (1999)

- **Director, Publications, Julia Stowe** (2012)
  - B.A., English, University of Maine; M.F.A., Creative Writing, University of Virginia

- **Assistant Director, Alumni Relations, Kevin Walkenhorst** (2011)
  - B.A., Communications, Brigham Young University

FINANCE & ADMINISTRATION

- **Vice President, Val L. Peterson** (1988)
  - B.A., M.S., Strategic Studies, U.S. War College; M.A., Mass Communication, Ph.D., Educational Leadership, Brigham Young University

- **Associate Vice President, Facilities/Planning, Frank Young** (2001)
  - B.S., Construction Management, Brigham Young University

- **Senior Director, Engineering/Space, Kurt Baxter** (2015)
  - A.S., Business Administration, Snow College; B.A., Political Science, Brigham Young University

- **Director, Public Safety & Parking Services, John Brewer** (2007)
  - B.S., Management, Western International University; M.S., Administration of Justice and Security, University of Phoenix

- **Director, Physical Plant, Laird Bellon** (1980)

- **Director, Grounds, Jack Boswell** (1976)
  - A.A.S., Auto Body, Utah Valley University

- **Associate Vice President, Finance, Michael R. Francis** (1984)
  - A.S., Business Management, Lethbridge Jr. College; B.S., Accounting, Brigham Young University; CPA, CGFM

- **Assistant Vice President/Controller, Business Services, Kedric Black** (2003)
  - B.S., Accounting, M.B.A., Business Administration, Utah State University

- **Director, Accounting, Joe Martin** (2010)
  - B.S., Accounting, Southern Utah University; M.B.A., Accounting, Utah State University; CPA

- **Bursar, David Phillips** (2012)
  - B.A., Accounting, Weber State University; M.B.A., Business Administration, Utah State University

- **Director, Dining Services, Joaquin Menendez** (2015)
  - B.A., Art History, Universidad Iberoamericana, Mexico City, Mexico; B.A., New England Culinary Institute; M.A., Escoffier Ecole du Cuisaine, Paris, France; M.B.A., University of Phoenix; A.O.S., Instituto Culinario de America Latina, Mexico City, Mexico

- **Director, Bookstore, Louise Bridge** (1996)
  - A.S., Dixie College; B.S., Business Management, Brigham Young University; M.B.A., Human Resources and Organizational Behavior

- **Director, Purchasing, Ryan Lindstrom** (1992)
  - B.S., Accounting, Brigham Young University; M.B.A.

- **Director, Printing Services, David Scott** (2003)
  - B.S., Sociology, Brigham Young University; M.P.A., Public Administration, University of Hawaii

- **Associate Vice President/CIO, Information Technology, Ray Walker** (1986)
  - A.A.S., Electronics Technology, Utah Valley University; B.S., Electrical Engineering, Brigham Young University; M.S., Electrical Engineering, Brigham Young University

- **Senior Director, Special Projects for IT, Joe Belnap** (2004)
  - B.A., Spanish, University of Utah; M.S., Organizational Leadership, Gonzaga University
• **Senior Director, Infrastructure Services**, Eddie Sorensen (1989)
  • A.A.S., Computer Science, Utah Valley University

• **Senior Director, Technology Support Services**, David Tobler (1990)
  • B.A., Business Administration, Canadore College

• **Senior Director, DBA Services**, Tracy Adams (1989)
  • B.S., Industrial Technology, Southern Utah State College

• **Director, Telephone Services**, Tom Branam (1994)
  • A.S., Science, Dixie College

• **Director, Center for Student Computing**, Darel Hawkins (1995)
  • A.A.S., A.S., Electronic Computer Technology, B.S., Technology Management, Utah Valley University

• **Director, Web Development Services**, Nathan Gerber (1994)
  • A.A.S., A.S., B.S., Computer Science, Utah Valley University

• **Director, IT Service**, JoAnn Innes (1995)
  • A.A.S., Microcomputer Applications, Utah Valley University

• **Director, Infrastructure Implementation & Management**, David Brian Peterson (2004)
  • A.A.S., A.S., B.S., Computer Science, Utah Valley University

• **Director, Administrative Programming**, Denise Vandevanter (1987)
  • A.S., Accounting and Business Management, Stevens Henager College

• **Director, Automation & Integration Services**, Mike Duffin (1996)
  • A.A.S., Electronics Technology, Utah Valley University

• **Director, Media Services**, Travis Tasker (1998)
  • A.A.S., Electronic Computer Technology ECT, Utah Valley Community College; A.S., Spanish, Utah Valley State College; B.S., Technology Management, Utah Valley University; 6 Sigma Green Belt Certified, ITIL Certified Foundations, CTS Certified Technology

• **Director, Systems Administration**, Brett McKeachnie (1993)
  • A.S., Computer Science, B.S., Information Technology, Utah Valley University

• **IT Security Officer**, Leroy Brown (1993)
  • A.A.S., Air Conditioning Refrigeration, A.S., Pre-Radiology, B.S., Technology Management, Utah Valley University

• **Associate Vice President/Athletic Director**, Vincent Otoupal (2013)
  • B.A., Political Science, Stanford University; OCS, TBS, Infantry Officer School, Cold Weather Survival (MWTC), Army; Cavalry Leaders Course, SECRET Military Security Clearance; M.B.A., University of Oregon

• **Associate Athletic Director/Communications & Marketing**, Clint Burgi (1996)
  • A.S., General Education, Utah Valley University; B.S., Communication, University of Utah; M.S., Recreation and Sport Administration, Western Kentucky University

• **Senior Associate Athletic Director/External Operations**, Jared Sumsion (2005)
  • A.S., Utah Valley University; B.S., Integrated Studies, Leadership & Community Health, Utah Valley University; M.B.A., Westminster College/University of Phoenix; Ed.D., Organizational Leadership, Nova Southeastern University

• **Senior Associate Athletic Director, Senior Women Administrator**, Megan Kennedy (1999)
  • B.A., Elementary Education, Brigham Young University; M.A.Ed., Health, PE, & Recreation, Brigham Young University

• **Assistant Athletic Director, Corporate Partner**, Nate Mathis (2004)
  • B.A., Communications, Brigham Young University; M.A.Ed., School Leadership, Brigham Young University

• **Associate Athletic Director, Business Operations**, Nikki Scott (2006)
  • B.S., Business/Accounting, University of Phoenix; M.B.A., emphasis in Accounting, Freed Hardman University

• **Assistant Athletic Director, Sports Medicine**, Andrew Nelson (2005)
  • B.S., Athletic Training, Brigham Young University; M.S., Sports Medicine, University of Oregon

• **Assistant Athletic Director, Compliance/Student Programs**, Mark Tschaggeny (2010)
  • B.S., Exercise Science, Brigham Young University; J.D., J. Reuben Clark Law School, Brigham Young University

• **Assistant Athletic Director, Financial Aid & Compliance**, Darren Larsen (2007)
  • B.S., Management, Brigham Young University; M.S., Sport Management Studies, California University of Pennsylvania

• **Assistant Athletic Director, Compliance**, Cameron Walker (2010)
  • B.A., Business Management & Leadership, Southern Virginia University; J.D., University of Arkansas School of Law

• **Director, UCCU Center**, Mark Hildebrand (2001)
  • B.S., Recreation Management, Brigham Young University; M.A., Public Administration Recreation, Brigham Young University
Administration and Faculty

- **Compliance Officer, Nancy Bartlett** (1992)
  - A.S., American Institute of Commerce

- **Director, Internal Audit, Jacob Atkin** (2004)
  - A.S., Pre-Engineering, B.S., Accounting, Utah Valley University; M.T., Weber State University; CPA

- **Director, Emergency Risk Management, Robin Ebmeyer** (2012)
  - A.S., Nursing, Brigham Young University - Idaho; B.S., Nursing, Weber State University; M.P.A., Public Administration and Emergency Management, Jacksonville State University

PLANNING, BUDGET, & HUMAN RESOURCES

- **Vice President, Planning, Budget, and Human Resources, Linda J. Makin** (1980)
  - B.S., Accounting, Utah Valley University; M.P.A., Brigham Young University

- **Associate Vice President, Human Resources, Mark L. Wiesenborg** (2003)
  - B.A., Communication, M.P.A., University of Utah

- **Director, Budgets, Ellen Sweat** (1998)
  - A.S., University Studies, Utah Valley University

- **Director, Equal Opportunity and Affirmative Action, Melissa L. Frost** (2014)
  - B.A., Government and Politics, University of Maryland; J.D., J. Reuben Clark Law School

- **Director, Institutional Research & Information, Robert Loveridge** (1985)
  - B.S., Mathematics, Brigham Young University; M.A., Ph.D., Educational Research, Evaluation, and Administration, New Mexico State University

- **Director, Institutional Effectiveness & Planning, Marc Jorgensen** (2006)
  - B.S., Ocean Engineering, United States Coast Guard Academy; M.S., Instructional & Perf Tech, Boise State University; M.A.L.S., Wesleyan University

- **Policy Officer, Cara O’Sullivan** (2010)
  - B.A., M.A., English, Brigham Young University

STUDENT AFFAIRS

- **Vice President, Michelle O. Taylor** (1995)
  - B.Ed., Educational Psychology, Brigham Young University; M.S.W., M.P.A., Ph.D., Social Work, University of Utah

- **Program Director, Grants Development Student Affairs, Greg Jackson** (2003)
  - B.A., Chinese and History, Brigham Young University; M.B.A, Finance, American Graduate School of International Management; Ph.D., University of Buckingham

- **Senior Director, Enrollment Management, Liz Childs** (1990)
  - A.S., Secretarial Technology, Brigham Young University

- **Director, Admissions & Registration, TBD**

- **Assistant Director, Admissions & Registration, Brett Tolman** (2007)
  - B.S., Behavioral Science, Utah Valley University

- **Coordinator, Residency, Anne Morrey** (1999)
  - A.S., History and Political Science, B.A., History, Utah Valley University

- **Coordinator, International Admissions, Connie Whaley** (2000)

- **Director, One Stop, Francie Hallman** (1993)
  - Clerical Certificate, Southern Utah University

- **Director, Financial Aid, Trish Howard** (2004)
  - B.S., Family Science, Southern Utah University

- **Program Manager, Financial Aid Scholarships, Carla Morgan** (1999)
  - A.A.S., Utah Valley University

  - A.A.S., Secretary, Utah Valley University

- **Assistant Registrar, Michelle Chatterley** (1991)

- **Program Director, Leave of Absence/Deferred Admissions, Kim Barraclough** (2005)
  - B.S., Journalism and Communications, Utah State University

- **Coordinator, NCAA Compliance, Carol Clarke** (2007)
  - B.S., Social Science Teaching, Brigham Young University
• Director, Graduation/Transfer Services, Margaret Bellon (1988)
  • A.S., Accounting, Utah Valley University

• Assistant Director, Transfer Articulation, Mindy Swenson (2007)
  • A.S., General Academics, B.S., Community Health, Utah Valley University

• Coordinator, Veterans Service, Raynette Atkinson (1996)

• Assistant Vice President, Recruitment & Outreach, Andrew Stone (2007)
  • A.S., Psychology, Utah Valley University; M.Ed., Ph.D., Educational Leadership and Policy, University of Utah

• Director, Prospective Student Services, Kris Coles (2009)
  • A.S., B.S., Behavioral Science, Utah Valley University; M.Ed., Educational Leadership, University of Utah

• Assistant Director, The Center for the Advancement of Leadership, Belinda Han (2011)
  • A.S., Individualized, B.S., Behavioral Science, Utah Valley University

• Senior Director, Women's Success Center, Anne Wairepo (2011)
  • M.A., Youth Leadership, Ph.D., Educational Leadership, Brigham Young University

• Director, Turning Point, Carol Verbecky (1994)
  • B.S., Child Development and Family Relations, Brigham Young University

• Director, Equity in Education, Lisa Williamson (2008)
  • A.A., Fresno City College; B.A., English, Utah Valley University; M.Ed., Westminster College

• Program Director, Care About Child Care, Julia Mohr (2002)
  • B.S., Family Studies, Brigham Young University

• Manager, Wee Care Center, Mary Ellen Larsen (2006)
  • Certificate of Early Childhood, Utah Valley University

• Director, School Community University Partnership, Liz Andrus (2009)
  • B.S., Elementary Education, M.Ed., Counseling & Guidance, Brigham Young University

• Director, Statewide GEAR UP, Laurie Miller (2006)
  • B.S., Elementary Education, Brigham Young University; Ph.D., Instructional Systems Design, Indiana University Bloomington

• Director, TRIO/UpwardBound/Talent Search, Michael Campbell
  • B.A., Music, Brigham Young University; J.D., Law, University of Buffalo Law School

• Assistant Vice President Student Success & Retention, Michelle Kearns (1992)
  • B.S., Business Management, Utah Valley University; M.P.A., Public Administration, Brigham Young University

• Director, Multicultural Student Services, Brett Breton (1999)
  • A.S., Mount San Antonio College; B.S., Psychology, M.S., Psychology Counseling, Ph.D., Psychology, Brigham Young University

• Program Director, Latino Initiative, Yudi Lewis (1998)
  • A.A.S., Legal Assistant, B.S., Business Management, Utah Valley University; M.B.A., Business Management, University of Phoenix

• Program Director, Native American Initiative, Ken Sekaquaptewa (2002)
  • B.A., English and Secondary Education, Brigham Young University

• Program Director, Career Passport, Sherry Harward (2008)
  • A.A.S., Executive Secretary and Information Processing Supervisor, B.A., Integrated Studies, Utah Valley University

• Director, International Student Services, Stephen Crook (2007)
  • B.S., M.A.C., Accounting, Brigham Young University

• Program Director, NSE an MM, Julie Bagley (1986)
  • B.S., Clothing & Textiles, Utah State University; M.P.A., Public Administration, Brigham Young University

• Director, Advisor Training & Development Wade Oliver (2010)
  • B.S., Sociology, University of Utah; M.S., Instructional Technology, Utah State University

• Director, Testing Services Colleen Sorensen (1994)
  • B.S., Health, Brigham Young University; M.B.A., Business Administration, Utah State University

• Director, TRiO Support Services Keith Jensen (1993)
  • B.S., International Relations, Brigham Young University; M.S., Educational Leadership, Troy State University

• Director, Career Development Center Michael Snapp (2001)
  • B.S., Communications, Weber State University

• Associate Vice President, Student Life Alexis Palmer (2004)
Administration and Faculty

- B.A., Elementary Education, Boise State University; M.S. Family Recreation and Youth Leadership, Brigham Young University

- Director, Accessibility Services Edward Martinelli (2007)
  - B.S., Psychology, M.Ed., Counseling & Guidance, Brigham Young University; Ph.D., Counseling Psychology, Auburn University

- Director, Student Leadership Phil Clegg (1997)
  - A.S., History and Political Science, B.S., Integrated Studies, Utah Valley University; M.P.A., Brigham Young University

- Senior Director, Sorensen Student Center Ken Mathews (1984)
  - B.A., Art and Design, Brigham Young University

- Senior Director, Student Health Services Bill Erb (2000)
  - B.S., Psychology, University of Utah; M.S., Counseling and School Psychology, Brigham Young University

- Director, Psychological Services, Jack Jensen (1977)
  - B.A., Political Science, Brigham Young University; M.S., School Psychology, University of Utah; Ed.D., Counseling and Psychology, Brigham Young University

  - B.S., Nursing, Weber State University; M.S., Nursing, University of Utah

- Director, Student Conduct & Conflict Resolution Ashley Larsen (2010)
  - B.S., English, Utah Valley University; M.Ed., University of Utah

- Director, Campus Recreation and Wellness, Amy Grubbs (2013)
  - B.S., Health Promotion, Brigham Young University

- Program Coordinator, Intramurals, Jenny Berrett (2012)
  - B.S., Human Performance, Weber State University; M.A., Human Performance, Adams State

- Director, Volunteer & Service Learning, Summer Valente (2013)
  - B.A., Humanities, M.P.A., Brigham Young University

- Program Director, Student Involvement, Grant Flygare (1989)
  - A.S., Legal Assisting, Utah Valley University; B.A., M.A., Philosophy, Brigham Young University

- Program Director, Housing and Resident Life, Matthew Chambers (2011)

- Wasatch Campus, Shad Sorenson (1998)
  - A.A.S., Hospitality Management, A.S., Individualized, B.S., Business Management, Utah Valley University; Ed.D., Educational Leadership, University of Utah

- Campus Administrator, Wasatch, Tom Melville (2008)
  - B.A., Political Science and German, M.S., Human Resources Management, University of Utah

UNIVERSITY RELATIONS

- Vice President, Cameron K. Martin (2012)
  - B.S., Political Science and Gerontology, M.P.A., Public Administration, Ph.D., Educational Leadership, Brigham Young University

- Associate Vice President, University Marketing & Communications, Chris Taylor (2006)
  - B.A., Communications, Brigham Young University; M.S., Public Administration, Utah State University

- Associate Vice President, International Affairs, Rusty Butler (1995)
  - B.A., M.S., Linguistics and Communications, University of Oregon; Ph.D., Linguistics and Communications, University of Arizona

- Director, Events, Mike Maughan (1995)
  - B.S., Physical Education and Secondary Ed Sports, Brigham Young University; M.A., Athletic Administration, Idaho State University

- Director, Strategic Marketing, Whitney Wilkinson (2012)
  - B.S., Communication and Journalism, Utah State University; M.S., Integrated Marketing Communication, Northwestern University

- Director, Studios & Broadcasting, Will McKinnon (1996)
  - A.A.S., Multimedia Communication, A.S., Electronic Technology, Utah Valley University

- Director, Creative Services, Matt Bambrough (2004)
  - A.S., Graphic Design, Utah Valley University; B.A., Graphic Design, Brigham Young University

- Director Community Relations & Special Projects, Steven Anderson (2013)
  - B.S., Communication, Utah Valley University; M.A., Strategic Communication & Leadership, Seton Hall University

- Director, Business Resource Center, Winthrop Jeanfreau
  - B.S., Organizational Communication, University of Utah; M.B.A., Business Administration, University of Oregon
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