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| General Information | .......................................................
| 801-863-4636    |
| Accessibility Services | ................................................. 863-8747 |
| Admissions | .......................................... 863-8466 |
| Athletics | ................................................. 863-8653 |
| Bookstore | ................................................. 863-8641 |
| Campus Connection (ID Desk) | ................................................. 863-8797 |
| Campus Police | ................................................. 863-5555 |
| Career & Academic Counseling | ................................................. 863-8425 |
| Career Services & Student Employment | ................................................. 863-6364 |
| Cashier | ................................................. 863-7200 |
| College of Humanities & Social Sciences | ................................................. 863-7435 |
| College of Science & Health | ................................................. 863-6441 |
| College of Technology & Computing | ................................................. 863-8321 |
| Concurrent Enrollment | ................................................. 863-8376 |
| Development & Alumni Relations | ................................................. 863-8205 |
| Distance Education | ................................................. 863-6385 |
| Extended Studies | ................................................. 863-8449 |
| Financial Aid & Scholarships | ................................................. 863-8442 |
| Graduation | ................................................. 863-8438 |
| International Center | ................................................. 863-8342 |
| Library | ................................................. 863-8265 |
| Multicultural Center | ................................................. 863-8357 |
| Parking & Transportation Services | ................................................. 863-8188 |
| Prospective Student Services | ................................................. 863-8811 |
| Ragan Theater | ................................................. 863-8799 |
| Registration/Records | ................................................. 863-8468 |
| School of Education | ................................................. 863-8228 |
| School of the Arts | ................................................. 863-6820 |
| Student Center | ................................................. 863-8612 |
| Student Government | ................................................. 863-8652 |
| Student Health Services | ................................................. 863-8876 |
| Testing Services | ................................................. 863-8269 |
| Transfer Credit | ................................................. 863-8438 |
| UCCU Events Center | ................................................. 863-8767 |
| University College | ................................................. 863-6712 |
| University Marketing & Communications | ................................................. 863-8206 |
| UVU Review (Student Newspaper) | ................................................. 863-6498 |
| Veteran’s Office | ................................................. 863-8212 |
| Wasatch Campus | ................................................. 863-6601 |
| Weekend College/Evening School | ................................................. 863-8432 |
| Women’s Resource Center | ................................................. 863-8080 |
| Woodbury School of Business | ................................................. 863-8260 |
### SUMMER TERM 2011

Session I (14 weeks) .................................................... May 9–August 12
Session II (7 weeks) ................................................... May 9–June 24
Session III (7 weeks) ................................................. June 27–August 12
Session IV (10 Saturdays) ........................................ May 7–July 16

**Summer Term Holidays**
- Memorial Day ....................................................... May 30
- Independence Day .................................................. July 4
- Pioneer Day ........................................................... July 25

### FALL SEMESTER 2011

Faculty Return ........................................................... August 22
Classes Begin ............................................................ August 29
Weekend Classes Begin ............................................. August 26–27
Labor Day Holiday ..................................................... September 5
Fall Break Holidays* ................................................... October 20–21
Weekend Classes Holiday* ......................................... October 22
First Block Classes End ............................................. October 17
Second Block Classes Begin ....................................... October 18
Thanksgiving Holidays* .............................................. November 23–25
Weekend Classes Holiday* ......................................... November 26
Classes End ............................................................. December 9
Final Exams ............................................................ December 12–15
Fall Semester Ends ................................................... December 15
Weekend Classes Final Exams ................................. December 16–17

**FINANCIAL AID IMPORTANT DATES AND DEADLINES (Fall 2011)**
- First Priority Date Financial Aid -- Fall/Spring .......... May 1, 2011
- First Priority Date Financial Aid -- Spring Only ........ October 1, 2011
- New Student Scholarship Deadline (first priority) ....... February 1, 2011
- Continuing Student Scholarship Deadline (first priority) .... March 1, 2011

### SPRING SEMESTER 2012

Faculty Return ........................................................... January 3
Classes Begin ............................................................ January 9
Weekend Classes Begin ............................................. January 6–7
Martin Luther King Jr. Day Holiday ............................. January 16
President’s Day Holiday* ........................................... February 20
First Block Classes End ............................................. February 27
Second Block Classes Begin ....................................... February 28
Spring Break Holidays* ............................................. March 12–16
Weekend Classes Holiday* ......................................... March 17
Classes End ............................................................. April 20
Weekend Classes Final Exams .................................... April 21
Final Exams ............................................................. April 23–26
Spring Semester Ends ................................................ April 26
Commencement ......................................................... April 27

**FINANCIAL AID IMPORTANT DATES AND DEADLINES (Spring 2012)**
- First Priority Date Financial Aid -- Spring Only .......... October 1, 2011
- New Student Scholarship Deadline (first priority) ....... February 1, 2011
- Continuing Student Scholarship Deadline (first priority) .... March 1, 2011

### SUMMER TERM 2012

Session I (14 weeks) .................................................... May 7–August 10
Session II (7 weeks) ................................................... May 7–June 22
Session III (7 weeks) ................................................. June 25–August 10

**Summer Term Holidays**
- Memorial Day ....................................................... May 28
- Independence Day .................................................. July 4
- Pioneer Day ........................................................... July 24

**FINANCIAL AID IMPORTANT DATES AND DEADLINES (Summer 2012)**
- First Priority Date Financial Aid -- Summer .............. February 1, 2012
- Financial Aid Deadline -- Summer and Year End ........ June 15, 2012

*NO ACCESS to UVU computing resources during the holiday, INCLUDING Saturday and Sunday. For questions, contact Ray Walker at Ray.Walker@uvu.edu.
# Academic Calendar

Dates marked in gray correlate to important information listed on the previous page.

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MISSION STATEMENT
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 lifelong learners and leaders, serve as stewards of a globally interdependent community.

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.

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.

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

LEARNING AND 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 AND 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 AND 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 AND 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.

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 to give authority to offer master level degrees in December, 2007, also that became effective July 1, 2008.

ACCREDITATION
In February 2011, the Northwest Commission on Colleges and Universities, an institutional accrediting body recognized by the Council for Higher Education Accreditation, reaffirmed Utah Valley University’s accreditation at the associate and baccalaureate degree levels and granted accreditation at the master’s degree level to include the Master of Education degree program. The effective date for accreditation at the Master’s degree level is September 1, 2009.

Northwest Commission on Colleges and Universities
8060 165th Avenue, Suite 100
Redmond, Washington 98052-3981

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

DEGREES OFFERED
Master of Education (M.Ed.)
Master of Science in Nursing (MSN)
Master of Business Administration (MBA)
Bachelor of Arts (BA)
Bachelor of Fine Arts (BFA)
Bachelor of Science (BS)
Bachelor of Social Work (BSW)
Associate of Arts (AA)
Associate in Science (AS)
Associate in Pre-Engineering (APE)
Associate in Science in Business (ASB)
Associate in Science in Nursing (ASN)
Associate in Applied Science (AAS)
Diploma
Certificate
Licensure - Secondary Education

Notes on Associate in Arts/Science
The Associate in Arts and Associate in Science are the general studies transfer degrees which, when students complete, are accepted throughout the system as satisfying all general education requirements. Students who have a pre-major area and who have declared their intent to transfer are advised carefully so that courses are taken in their pre-major area that also fulfill undergraduate course requirements at transfer institutions.

All statements herein are believed to be true and correct at time of publication. Utah Valley University reserves the right to make necessary changes, deletions, or revisions.

On the following pages is a charted list of UVU degrees, diplomas, and certificates for your convenience.
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| *To view a complete list of Integrated Studies or Technology Management emphases, see the appropriate department pages of this catalog.

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*To view a complete list of Integrated Studies or Technology Management emphases, see the appropriate department pages of this catalog.
### UVU DEGREES, DIPLOMAS, AND CERTIFICATES

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*To view a complete list of Integrated Studies or Technology Management emphases, see the appropriate department pages of this catalog.

For more information regarding a specific program, please see the corresponding catalog page. The advisor’s contact information will be available there as well.

All statements herein are believed to be true and correct at time of publication. Utah Valley University reserves the right to make necessary changes, deletions, or revisions.
Admissions Policy
Utah Valley University will maintain an “open door” policy, admitting all applicants whose qualifications indicate they may benefit from the instructional programs offered and are generally beyond the age of high school enrollment.

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
Applicants under 17 years of age, who have not graduated from high school and whose age group will not have graduated from high school prior to the enrollment period for which admission is sought, must apply for exception to policy through the Admissions Office. Student is required to be in the non-degree seeking status High School Concurrent Enrollment (HSCE) until they graduate from high school, receive a GED or beyond compulsory high school age. Student is required to take placement testing and at a minimum qualify to enter English and Math at a college level (1010 or above.)

Enrollment
Being admitted to a specific major does NOT ensure enrollment. In majors with limited openings (or seats), enrollment is based on a “first come, first served” procedure, assuming prerequisites have been satisfied.

Some programs or majors of the University 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.

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

1. Application for Admission. For immediate response apply on-line at: www.uvu.edu/admissions or apply by paper application.


3. ACT/SAT test scores or Placement Test scores must be submitted prior to registration for classes.

In addition, the University requests official transcripts of all previous college and high school work and if applicable, GED or other certification of high school completion in a sealed envelope from the previous schools.

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

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. Proper documentation must be filed with Admissions for review and approval before residency status will be changed.

Applicants for residency classification should allow three weeks for a review and determination of his/her residency.
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 deadline. Applications/Supporting documentation received after the deadline 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 one year (3 consecutive semesters) or more are required to reapply for admission. No admission fee will be assessed to returning students.

Veterans
Veterans considering enrollment are encouraged to contact the UVU Veterans Office (BA 114) 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 one time 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
Student 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.

Form I-94
The I-94 is issued to international students at the port of entry to the United States. Normally the form is stapled to each individual’s passport. This card must be presented prior to registration.

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 Compass ESL
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 writing:

Test of English as a Foreign Language (TOEFL)
Box 899
Princeton, NJ 08541
U.S.A.

or by contacting the American Consul. A minimum score of 500 written test, 173 computer based, or 61 for internet based test for TOEFL or 90 for Compass ESL is required for admittance to an associate level program at UVU. No scores are needed for admittance to the Intensive English program.

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

Scholarship and Financial Aid
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 term at UVU and 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 and 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.
REGISTRATION OFFICE
Office: BA 106 (One Stop)
Telephone: (801) 863-8468

REGISTRATION PROCEDURES
A schedule of classes is published online every semester/term 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.

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/term students may add open classes without a fee or approval. After the first week of class students wishing to add a class must obtain instructor and department approval on an Add Card and pay the corresponding fee. Students may not attend classes for which they are not officially enrolled.

The add fee may be waived for department-recommended changes.

The Add Card may be obtained at One Stop. After obtaining the instructor’s signature and department approval, the student returns the card to One Stop to pay the fee and add the class(es). Full semester classes may only be added through the first two weeks of the semester.

Students may withdraw from full semester classes up to the end of the sixth week of the semester. Classes may be dropped and not appear on the transcript through the third week of the semester. After the third week, a grade of “W” will appear on the transcript for all official withdrawals. Withdrawing from a course after the sixth week 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 will 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.

Block classes may be withdrawn through the third week of class. The semester student timetable includes deadline dates for other sessions.

Students who add classes must finalize the process through One Stop or the Cashier to pay for any additional credit.

Administrative Drop
Students may be dropped from classes by the administration if they: 1. Register, but do not attend equipment-related courses within the first three days of a semester, 2. Register for courses for which they have not completed prerequisites, 3. Default on short-term loans, or, 4. Neglect to pay tuition and fees for any given semester/term by the end of the fourth week. 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 in the 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.

TUITION AND FEES POLICY
Tuition and student fees are established by the Utah State Board of Regents. Tuition and other changes as listed in the catalog and other UVU publications are subject to change without notice. Students are advised to consult current information at www.uvu.edu. The University policy regarding payment of tuition and fees is that all tuition and fees are due and payable to the Business Services Department (Cashier) at the time of registration. Checks for an amount larger than the total tuition and fees due will not be accepted.

This policy applies to Early Registration, Open Registration, and Late Registration.

Registration not paid for or covered by Financial Aid by the published payment deadline:
- May be assessed a late payment fee at 20% of the unpaid account balance (not to exceed $100 per semester)
- May be dropped for non-payment (See published PURGE dates)

Students who default on all or any portion of their tuition and fees will be suspended from further registration and records activity at the University until their account is 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 the Credit Bureau and/or turned over to an outside collection agency for collection.

Tuition Surcharge Policy
A student who takes course work in excess of 135% of the credits required for graduation may be charged for those excessive credit hours at the same rate as for nonresident students. For further information on this policy, contact the Graduation and Transfer Services Office.

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

**Semester**

- Through third week of instruction 100%
- Beginning fourth week of instruction 0%

Thereafter, the refund periods for instructional cycles other than the semester are extrapolated from the above schedules.

A Petition to the Refund Policy Form can be obtained from the office of the Registrar.

**Check Cashing Procedures**

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

Checks written that later have a “stop payment” placed upon them will be considered as “dishonored checks”.

Checks written 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.

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

Students who have current dishonored checks will not be allowed to receive grades and/or transcripts, make changes in registration, register for future semesters, graduate, nor pick up checks that are disbursed by UVU, which may include but are not limited to financial aid, guaranteed student loans, tuition refunds, and payroll checks.

**Special Lab and Course Fees**

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

**Late Tuition Payment**

Tuition payment deadlines are published in the Semester Student Timetable.

All unpaid account balances after the deadline will be assessed a 20% late fee (not to exceed $100).

**Add Fee**

An Add Card may be obtained at One Stop. Beginning the second week of instruction, after obtaining the instructor’s signature and departmental approval, the student pays a $10 fee at One Stop. Add cards will be accepted through the third week of the semester. Classes will not be added after this time.
Important note: Content subject to change based on federal and state regulations. Financial aid is designed to bridge the gap between the costs of attending the Institution and what students and their families are expected to pay. Estimated average costs for the academic year (two semesters), 2011-2012, are listed below and change annually. (Note: A “commuter” is a dependant student who resides with family; a “resident” is a student who, for tuition purposes, is a resident of Utah; and a “nonresident” is a student who comes from another state or country and pays nonresident tuition.) Tools and lab fees vary with each program and are not included in the costs listed below. Costs change annually, variable costs are averaged and vary by student choices.

<table>
<thead>
<tr>
<th></th>
<th>Commuter</th>
<th>Resident</th>
<th>Nonresident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books &amp; Supplies</td>
<td>$1,738</td>
<td>$1,738</td>
<td>$1,738</td>
</tr>
<tr>
<td>Living Expenses</td>
<td>$9,862</td>
<td>$14,314</td>
<td>$14,314</td>
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</table>

FINANCIAL AID APPLICATION PROCEDURE
To be considered for financial aid a student must meet the following conditions:

1. Submit an Application for Admission and be admitted with a high school diploma, or the recognized equivalent, or (if 18 years of age or older) have passed a test approved by the U.S. Department of Education. For more information contact the Admissions Office or the Assessment Center.

2. Complete all online UVU forms at www.uvu.edu (select UVLink) and submit it to the Financial Aid and Scholarship Office. All required forms are listed on our website, uvu.edu/financialaid.

3. Obtain a PIN (personal identification number) at www.pin.ed.gov and complete the Free Application for Federal Student Aid (FAFSA), submit it to the Federal processor.

4. Check “UV Link” at www.uvu.edu under the financial aid menu for status of application.

5. Submit to the Financial Aid and Scholarship Office all requested verification information.

6. Meet all other eligibility requirements.

7. Students are encouraged to complete process by May 1 for priority status.

NOTE: To have financial aid to pay registration costs before school begins, an applicant must have an accurate application completed by this date. Additional information and help are available through the Financial Aid & Scholarship Office.

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 PRIORITY/DATES

- May 1: Federal/State financial aid for Fall Semester 1st priority processing.
**Financial Aid & Scholarships**

June 15  Federal/State financial aid final processing for academic year example: 2011-2012 financial deadlines are June 15, 2012

**THE FINANCIAL AID AWARD**

(see endnotes at the end of this section)

With the exception of most scholarships, financial aid is awarded on the basis of “need.” Financial need is determined by analyzing the Institutional Data Form and the needs analysis information reported in the Free Application for Federal Student Aid (FAFSA). These forms are available on the Financial Aid website at www.uvu.edu/financialaid.

If all necessary qualifications have been met and financial need is demonstrated, assistance from scholarships, grants, loans, or part-time employment may be offered. As long as money is available a “package” of aid, funds from a combination of different programs, is awarded. All awards are granted for the academic year. Application must be made each year.

Students will be notified about the decisions regarding their application when processing is complete. Notice of your financial aid award will be sent to your UVLink account.

**TYPES OF FINANCIAL AID**

**Grants**

FEDERAL PELL GRANTS (FPELL) provides non-repayable aid for eligible students. The awards range between approximately $400 and $5,550 * per year. The amount of the award is based upon the family contribution, the cost of attendance, and a payment schedule issued by the U.S. Department of Education. *(subject to change annually)*

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS (FSEOG) makes additional funds available to students with unusual need. This grant is usually combined with other forms of aid and is also non-repayable.

LEVERAGING EDUCATIONAL ASSISTANCE PARTNERSHIP GRANTS (LEAP), available to Utah residents only, are also awarded to students with substantial financial need. This award is usually combined with other forms of financial assistance and is also non-repayable.

UTAH CENTENNIAL OPPORTUNITY PROGRAM FOR EDUCATION (UCOPE) GRANTS are limited to eligible Utah residents only, and are usually combined with other financial aid.

**Loans**

FEDERAL PERKINS LOANS (FPERK) is excellent long-term loans (very limited funding). Although the money must be repaid, no payments need be made and no interest is charged until nine months after the borrower ceases to be enrolled at least half-time. When interest begins to accrue, it is at the rate of 5% per year (subject to change). A minimum monthly payment of $40 (subject to change) is required. Under special circumstances payment may be deferred for a time. Online loan counseling is required of every student who receives a loan.

FEDERAL DIRECT STAFFORD LOANS (SUBLN) is the first of the Federal Family Education Loan Program options which enable students to borrow from a bank, credit union or other participating lender. The amount that may be borrowed depends on the borrower’s need and year in school. The interest rate on new loans disbursed July 1, 2011, through June 30, 2012, will be a fixed rate of 3.4%. The minimum monthly payment, which begins 6 months after the borrower ceases to be enrolled at least half-time, is $50 (interest rates subject to change). Online loan counseling is required of every student who receives a loan.

UNSUBSIDIZED FEDERAL DIRECT STAFFORD LOANS (UNSUB), another of the Federal Family Education Loans, are available from private lenders to any student who meets the general eligibility criteria. Subject to annual limits, the UNSUB may not exceed the cost of education minus financial aid. The interest rate for new loans disbursed July 1, 2011, through June 30, 2012, will be a fixed rate of 6.6%. Interest accrues during in-school, grace, and deferment periods. It may be paid monthly or quarterly, or added to the principal amount of the loan (interest rates subject to change).

FEDERAL DIRECT PARENT LOANS FOR UNDER-GRADUATE STUDENTS (FPLUS) are the third of the Federal Family Education Loan Program alternatives. Parents of dependent students enrolled at least half-time may borrow from a bank or credit union. The variable interest rate for new loans is adjusted annually, with the maximum being 9%. Not based on need and subject to limits, the amount of the FPLUS may never exceed the student’s cost of attendance (as determined by the College) minus the student’s financial assistance. Repayment of principal (unless deferred) and interest begins 60 days after the loan is disbursed. The lender has more information.

TUITION PAYMENT PLUS PLAN allows an eligible student to defer a portion or all of the tuition and fees. Instead of interest, an application fee is charged. To obtain a tuition payment plan a student must make a down payment of 10% of the total tuition and fee costs. The remaining balance of the charges must then be paid in equal installments before the end of the term for which the note was made.

**Student Loan Limits**

Annual and aggregate limits are prescribed within the Federal aggregate limits below.

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<thead>
<tr>
<th>Loan Level</th>
<th>Credit Hours</th>
<th>Direct Stafford Annual Limit</th>
<th>Perkins Annual Limit</th>
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<tbody>
<tr>
<td>1</td>
<td>0 - 26.9</td>
<td>$3,500</td>
<td>$3,000</td>
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<tr>
<td>2</td>
<td>30 - 98</td>
<td>$4,500</td>
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</table>

<table>
<thead>
<tr>
<th>Aggregate</th>
<th>$23,000</th>
<th>$20,000</th>
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</thead>
<tbody>
<tr>
<td>Total</td>
<td></td>
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</tr>
</tbody>
</table>

*(See endnote)*

**Work**

FEDERAL WORK-STUDY (FWS) funds provide opportunities for students who can demonstrate need and want to work part-time. Salaries are usually equal to current minimum wage. The total amount a student may earn is determined on the basis of need.

UTAH CENTENNIAL OPPORTUNITY PROGRAM FOR EDUCATION (UCOPE) WORK-STUDY is for eligible Utah residents and usually combined with other financial aid.

**Scholarships**

Utah Valley University offers a comprehensive and varied scholarship program. Scholarships are provided by State and University funding, alumni, and private donors and are awarded on the basis of academic excellence and promise of future achievement. Financial need is a factor for some awards. Additionally, students who have acquired skills may be awarded for their talents.

There are additional facts to know about scholarships. Utah residency is required for all except exceptional performance and privately funded programs. If a student is offered more than one scholarship, it may be necessary to indicate a preference. Scholarships are offered to New, Transfer, and Continuing students.

New UVU Students, those students who have never attended UVU (including transfers and high school concurrent enrollment) will automatically be considered for Academic Merit Scholarships (see UVU’s website). If a student is admitted to UVU and they have current official high school transcripts with ACT scores or college transcripts on file with the Admissions Office by February 1st for Fall & Spring two-semester awards. Please see “scholarships” at www.uvu.edu/financialaid/scholarship for more information.

Continuing UVU Students, those who have completed at least 12 total post-high-school UVU credits since enrolling at the Institution after high school graduation, may also apply for scholarships. Applications must be submitted by: March 1 for Fall & Spring two-semester awards. Please see “scholarships” at www.uvu.edu/financialaid/scholarships for detailed information.

ATHLETIC SCHOLARSHIPS are awarded to students who are selected by the coaching staff for specific athletic teams. Tryouts are required. Contact Athletics Department 801-883-8998 for more information on the different sports programs or for the specific head coach(es).

PRIVATELY FUNDED SCHOLARSHIPS are funded through generous donations from individuals and organizations. Recipients are

<table>
<thead>
<tr>
<th>3rd</th>
<th>60 - 192</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5,500</td>
<td>$3,000</td>
</tr>
</tbody>
</table>

16 Catalog 2011-2012 Utah Valley University
selected through a joint process between the UVU Gifts and Grants Committee and the individuals and organizations. All awards are subject to available funding and donor specified criteria. Apply at www.uvu.edu/financialaid/scholarships.

ROTC SCHOLARSHIPS are awarded to new and continuing UVU students interested in pursuing a demanding, exciting, and growth-oriented career with the US Army through the Reserve Officers’ Training Corps (ROTC); cadets continue to serve as commissioned officers in the active armed forces, National Guard, or the Reserves. An interview is required. Contact the Enrollment Office at 801-378-7725 or 801-863-8295.

UTAH CAREER TEACHING SCHOLARSHIPS are offered to continuing UVU education-major students who are planning to certify as teachers and to teach in the State of Utah. The award covers regular tuition and fees. To be considered for this scholarship, applicants must: (1) be a Utah resident; (2) have a minimum cumulative UVU GPA of 3.0; and (3) have completed at least 25 UVU credit hours. Applications must be submitted no later than March 1. Contact the Education Department at 801-863-8527.

SUMMARY OF SELECT FINANCIAL AID POLICIES

Satisfactory Academic Progress
(See endnote at the end of this section)

To be eligible to receive or continue to receive financial aid a student must be enrolled in the institution and be in good standing. Being in good standing means complying with accepted enrollment and behavior standards and practices of the Institution and the Financial Aid & Scholarship Office.

The Federal Higher Education Act requires that a student also be making satisfactory academic progress—qualitative and quantitative—to be eligible to receive or continue to receive Title IV financial assistance. “Neither the Secretary of Education nor an institution has the authority to waive this requirement for any student or group of students.”

Because the required academic progress standard is intended to measure advancement toward a degree, diploma or certificate objective, federal guidelines state it “must be cumulative and it must include any periods of enrollment”. The standard must also be applied consistently to everyone, recipient as well as applicant. To be eligible, then, “a student must be maintaining satisfactory progress regardless of whether he/she had previously received Title IV aid.” So all terms of enrollment, not just those during which financial aid was received, will be considered when evaluating the academic progress of any financial aid applicant.

The “quality” of academic progress is measured by the Grade Point Average (GPA). Required to measure the “quantity” of progress is a maximum time frame—divided into semester increments—in which the student must complete the educational objective, and after which he/she is no longer making progress. The quantitative measurement also requires a designation of the minimum amount of work a student must successfully complete by the end of each increment of enrollment.

Title IV rules subject to change. Example: New Integrity rules effective July 1, 2011 allow Title IV funds to be paid for only one repeat of a course.

The same principles of academic progress are applied to all forms of assistance. However, the standards are higher for scholarships.

Requirements for Federal and State Aid

- 2.0 (C) minimum cumulative Grade Point Average (GPA) to receive and keep financial aid;
- 9.0 earned credit hours, minimum, completed each semester for full-time financial aid (12+);
- 6.75 earned credit hours, minimum, completed each semester for three-quarter-time financial aid (9.0-11.5);
- 4.5 earned credit hours, minimum, completed each semester for half-time financial aid (6-8.5);
- A maximum eligibility time frame, measured in attempted credit hours, of 150% of the program.

Financial aid will be denied or canceled if a student’s records indicate failure or inability to maintain good standing and/or satisfactory academic progress. Students are commonly found ineligible because they have: (1) too low of a cumulative GPA; (2) Audits, Drops, Failing “E” Grades, Incompletes, Repeats, Challenge Credits, Withdrawals or Unofficial “UW” Withdrawals; (3) not completed the required number of credit hours; (4) not officially withdrawn from classes; (5) completed more than the permitted maximum hours; (6) failed to maintain progress at a previous institution. A repayment may also be owed.

If an aid recipient has the tuition and fee account credited from financial assistance before grades are available and it is later determined that he/she is no longer eligible, the Financial Aid & Scholarship Office has the right to recover those aid funds and to charge the student for the tuition and fees due or to withdraw the student from school.

A student who is not eligible or who loses eligibility may still be able to (re)qualify. To do so the individual must attend school, at his/her own expense, and raise his/her GPA to the required level and/or complete the required number of credit hours. Once the deficiencies are corrected, a written appeal (forms available) must be submitted to the Financial Aid Counselor(s) for determination of eligibility status and whether a new aid award can be calculated. However, no payments and no adjustments will be made to compensate for aid lost during periods of ineligibility. Students who fail to meet any or all SAP standards may appeal to the Financial Aid Counselor(s) for determination of eligibility status and whether a new aid award can be calculated. However, no payments and no adjustments will be made to compensate for aid lost during periods of ineligibility. Students who fail to meet any or all SAP standards may appeal this status with the Financial Aid office. If a student has extenuating circumstances which can be documented, the appeal may be approved on a case by case basis.

REFUNDS AND RETURNS
(see endnote at the end of this section)

Students who officially withdraw from school or drop classes no later than the end of the refund period may be entitled to a UVU refund of tuition and fees. Time schedules are published in the catalog and/or class schedules.

If a refund is payable and the student received any Federal, State or Institutional scholarship or financial assistance funds (except Federal Work-Study or UCOPE Work) the entire amount of the UVU refund may be restored to the financial aid programs. Federal regulations require that funds be returned first to the Title IV programs. The federal share is calculated according to federal guidelines.

Students who formally withdraw or leave school unofficially (but for whom attendance can be documented) may be required to return all or part of the Title IV funds disbursed. The amount of Title IV assistance earned by the student must be calculated for official and unofficial withdrawals which occur through the first 60% of the semester or term of enrollment. Thereafter, no return of Title IV funds is required. Important: Financial aid recipients who completely withdraw BEFORE ATTENDING 60% of the semester will be required to repay financial aid.

If the amount of aid received by the student exceeds the amount earned, according to the percent of time the student was enrolled, the excess must be returned to the Title IV programs. The amount to be returned is the “lesser of the unearned amount of Title IV assistance or an amount equal to the total institutional charges the student incurs for the payment period or period of enrollment for which the assistance was awarded, multiplied by the unearned percentage of awarded Title IV grant and loan assistance” according to federal law.

Students who do not officially withdraw from school and who cannot document their attendance are not considered to have earned any financial assistance. Such students will be responsible to return all Title IV funds the Institution restores to the Title IV accounts. In addition, all State and Institutional funds received for non-institutional costs must also be repaid.

Repayment of unearned funds is generally due immediately. Students will be notified of the repayment amount and the repayment deadline for federal funds. Institutional services such as grade transcripts, enrollment for future terms, and so on may be withheld until repayment is received. Until Title IV funds are returned, a student who owes repayment will not receive aid at any other college or university. Students who completely withdraw for the semester after receiving federal financial aid are not considered to be making satisfactory academic progress.
Financial Aid & Scholarships

Title IV rules subject to change. Example: New program Integrity rules effective July 1, 2011, change the treatment of summer program funds when students completely withdraw from a modular program.

VERIFICATION

Approximately one third of all applicants is randomly selected by the Federal Processor for a process called verification. The UVU Financial Aid & Scholarship Office is required to verify the accuracy of data in those selected files. There are three reasons for doing so: (1) to reduce errors; (2) to prevent mistakes that may result in either the student or the Institution having to repay Federal or State funds; (3) to ensure that the limited dollars available for financial assistance are offered to students who are truly eligible for assistance.

If selected, you will be required to give the Financial Aid & Scholarship Office specified forms and documents to help in the verification process. The most common forms requested are taxes. Errors cause considerable delay, so make sure to report only accurate information.

STUDENT CONSUMER INFORMATION

(See: www.uvu.edu/visitors/about/heastudentconsumer.html for web information about all areas listed below)

Accreditation: Information regarding the associations, agencies/and or governmental bodies that accredit, approve, or license the school and its programs, can be found in the Institution Catalog.

General institutional issues: Contact the information desk or Student Service Center.

Costs of attending UVU: Outlined in the Institution Catalog online, Class Schedule, and Admissions/Registration Office.

Degree programs, training, and other education offered: Information is available at Career and Academic Counseling and in the Institution Catalog.

Equity in Athletics: Information on the campus athletic programs including the number and gender of participants that compete as well as campus coach staff information, can be found in the Athletic Department.


Institution’s completion or graduation rate and transfer-out rate: Contact Career and Academic Counseling or Graduation Services.

Instructional, laboratory, and other physical plant facilities associated with the academic programs: Refer to the University Catalog or Class Schedule.

List of faculty and other instructional personnel: Listed in the Institution Catalog.

Loan repayment: Information available online at www.nslds.ed.gov or see the Financial Aid Office.

Prevention of drug and alcohol abuse: Refer to the Institution Catalog and Class Schedule.

Refund policy: Defined in the Institution Catalog and Class Schedule.

Special facilities and services available to disabled students: Contact Accessibility Services.

Student Right-to-know and campus security: Detailed reports listed in the Institution Catalog and Class Schedule as well as the UVU website under Institutional Research.

Crime Information: Please visit www.uvu.edu/police for timely UVU crime information.

END NOTES

Details are available in the Financial Aid and Scholarship Office for procedures and requirements, including the following:

• Budget and Resource
• Awarding and Packaging
• Satisfactory Academic Progress
• Refunds and Returns
• Verification and Documentation
• Student Loan Limits

CONCLUSION

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

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

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:

a. One hour of lecture, plus a minimum of two hours of personal work outside of class. (One hour of lecture is considered to be 50 minutes per week)

b. Three hours in a laboratory, with additional outside work in preparation and documentation;

c. Any other combination appropriate to a particular course as determined by the academic department.

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.

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.
Academic Policies & Standards

<table>
<thead>
<tr>
<th>One Credit of:</th>
<th>Equals Grade Points:</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
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<td>0.0</td>
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<tr>
<td>UW</td>
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</tbody>
</table>

The following grades are not computed in the GPA:

- W: Official Withdrawal
- I: Incomplete
- AU: Audit
- CR: Credit Granted
- NC: No Credit Granted
- CEU: Noncredit—Continuing Education Unit

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/term. 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/term. 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/term 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 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 should be passing the course and lack less than 30% 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/term in which the "I" was given.

The incomplete work cannot be completed by retaking the class. If such an option is preferred, the student should 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 tuition for repeating a course more than once shall be charged at the full cost of the instruction 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

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. 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 an informal appeal to the department head, either in writing or verbally, 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.

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 AND REINSTATEMENT

Withdrawal from Classes

For Fall and Spring Semesters, if a student officially withdraws from a semester class during the first three weeks of the semester, no grade entry will appear on the permanent record. For Summer term, 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 third week, but prior to the last day to withdraw, the withdrawal will appear on the permanent record as a “W.” For Summer Terms 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) before the last day to withdraw, he/she should receive a "UW." If a student stops attending (but does not officially withdraw) beyond the last day to withdraw, he/she may receive the grade earned up to that point or an "E," at the instructor’s discretion. “UW’s” are calculated into the grade point average (GPA) as 0.00, the same as “E’s” (failing grades).

**Administrative Withdrawal**

Students may be 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. Default on short-term loans; or 4. Neglect to pay tuition and fees for any given semester/term by the end of the fourth week. 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 an Official Withdrawal Form and submit it to One Stop. 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 Registration Office and by paying a $5 reinstatement fee.

**Student Military Leave Procedure**

Students activated into military service during an academic semester/term 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.

A. 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.

B. 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.

C. 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>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>75</td>
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<tr>
<td>2</td>
<td>150</td>
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<tr>
<td>7</td>
<td>525</td>
</tr>
<tr>
<td>8</td>
<td>600</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 at 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 not 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.

**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 (NWCUCU)
- 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.)

Individual departments may choose to make exceptions to this list on a course by course basis.

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

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. Experiential/Challenge Credit

(Equivalency Examination and/or Documentation of Earned Competency)

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.

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

- a. be admitted to UVU and currently enrolled for at least three semester hours of credit;
- b. complete the semester in which the challenge credit is awarded with at least three earned semester hours of credit, excluding the challenge credit;
- c. obtain department chair approval prior to step d;
- d. pay in advance a nonrefundable processing fee;
- e. complete a comprehensive examination (theoretical and/or applied) with at least a “C-” grade and/or provide documentation of practical experience to the satisfaction of the department chairperson and dean showing course objectives have been met; OR complete an advanced course with a grade of “C-” or higher as a validation procedure (if deemed necessary by the department);
- f. pay a fee for each approved credit hour.

Students may not challenge a class for which they are or have been enrolled.

No more than 25 percent of the credits applied toward an associate degree, diploma, or certificate may be awarded through challenge credit. Regardless of the certificate, diploma, or degree (to include bachelor of science degrees), 16 credit-hours of challenge credit is the maximum that may be applied.

A course may be challenged through prior permission of the department chairperson through enrollment in an advanced class that typically would require previous course work when there is valid evidence that the student may have already achieved the required competency. The competency may have been attained through work experience and/or private study. If the student is successful in the advanced class (grade “C-” or better), he/she may apply for credit, through the offering department’s chairperson, for classes taken as a sequence up to the challenged class. When a class is successfully challenged, a fee is charged for each credit hour.

A specific course may be challenged only once. Duplicate credit will not be awarded.

Credits achieved by the challenge procedure outlined above are recorded as “CR” on the official transcript and will be posted to the transcript at the end of the semester/term.

4. Language Challenge Credit

Students may obtain an Experiential Language Credit Request Form in the UVU Language 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 18 credit hours. To qualify for these credits, a student must complete a course in that language at a higher level than the credits for which he/she applies; the grade in that course must be a “C-” or better.

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

Proficiency tests to determine placement (not credit) in advanced courses are administered in the UVU Classroom Testing Center prior to the beginning of each semester. Students unsure of their language skills should take the test or receive permission from the course instructor before registering for advanced classes.

Students who qualify for credit under the above provisions (for example, they register for, and successfully complete, Spanish 2010 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 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 Department.

5. Advanced Placement Credit

In recognition of the Advanced Placement Program sponsored by the College Entrance Examination Board, students who complete an Advanced Placement course in high school and receive a grade of 3, 4, or 5 on the corresponding Advanced Placement Examination may be granted up to 8 credits in that subject. Credit will be posted as a “CR” grade and will not be calculated in the GPA. 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. 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.

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. No more than 16 total CLEP hours may be awarded.

COURSE NUMBER SYSTEM

0000-0899 Remedial or preparatory noncredit courses; may not be counted toward a certificate, diploma, associate, or bachelor’s degree.
Academic Probation

A student with a current GPA below 2.0 will be on academic probation.

1. A student with a cumulative GPA below the 2.0 minimum will be on academic probation.

2. A student will be removed from academic probation when his/her cumulative GPA and current GPA are 2.0 or above.

Suspension

1. A student who fails to achieve both a current and cumulative GPA of at least 2.0 after two semesters of probation will be suspended from UVU.

2. A student who has been suspended must petition the Academic Appeals Committee in order to register for a subsequent semester.

3. If a student’s petition is granted, the conditions and length of probation will be determined by the Academic Appeals Committee. When the student has completed the terms of probation and his/her grades are consistently above 2.0 for a least two semesters, the student will be returned to good standing at UVU.

Dismissal

When a student fails to comply with the terms of probation, as determined by the Academic Appeals Committee, the student will be dismissed from UVU. Such a student has exhausted his/her opportunity to study at UVU in a degree-seeking program until he avails himself of the appeals process.

Re-Admission

Students who withdraw from UVU with a final semester GPA of less than 2.0 but have a cumulative GPA higher than 2.0, will be readmitted on probation and must meet with their advisor to establish an academic plan.

Any student with a cumulative GPA below 2.0 who withdraws from UVU must petition the Academic Appeals Committee in order to be readmitted.

Appeals From Suspension or Dismissal Status

A student subject to suspension or dismissal may petition the Academic Appeals Committee for an exception to the Academic Standards Policy. To do so, he/she must submit a written appeal to the Appeals Coordinator. In this petition the student may request that he/she be granted a hearing before the Academic Appeals Committee. The petition should set forth the extenuating circumstances that would warrant the granting of a waiver of the student suspension, or dismissal status. Evidence should be presented which would indicate that the student has carefully considered and reassessed educational objectives and has eliminated those factors which led to suspension, or dismissal status.

If a student is dissatisfied with the decision of the Academic Appeals Committee, the student has the right to present a written appeal to the Vice President for Student Services, within two weeks following notification of the committee’s decision. Following a review of the appeal, the Vice President for Student Services will make the final decision.

Academic Renewal

To facilitate graduation and future academic pursuits for students who have had a period of study that does not reflect their academic potential, UVU will allow a student to petition the Registrar for academic renewal once during his/her enrollment at the college. This process will allow the removal of some previous academic work for computation of GPA or from credit towards graduation. To be eligible, the following conditions must be met:

1. The student must be currently enrolled at UVU.

2. At the time the petition is filed, a minimum of two years must have elapsed since the most recent course work to be eliminated was completed.

3. Before the petition may be filed, the student must have completed at least 30 semester hours of UVU course work within a minimum cumulative GPA of 2.50. This course work must have been completed after the course work being considered for elimination.

The student may have a maximum of two semesters/terms of academic course work disregarded in all calculations regarding the computation of total credits and cumulative GPA. The petition to be filed by the student will specify the semesters/terms to be disregarded.

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

This policy will not be used for individual courses, or for students already holding associate or baccalaureate degrees. Since this is already a policy of exception, no exceptions will be made to the aforesaid conditions. Students should be aware that this policy MAY NOT BE ACCEPTED at transfer institutions. Academic renewal may be requested only once during a student’s academic career at UVU.

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.

ACADEMIC STANDARDS

Career and Academic Counseling Center
Room: LC 402
Telephone: 801-863-8425

The mission of Academic Standards at Utah Valley University (UVU) is to help students succeed academically. Students are considered to be succeeding academically if they continue in good standing (defined as earning at least a 2.0 GPA on a 4.0 scale), graduate, or leave UVU in good standing. To this end, the following policies have been established:

Academic Warning

A student with a current GPA below 2.0 will be on academic warning and will be required to attend a brief workshop before the hold will be removed from his/her student record.

Academic Probation

1. A student with a cumulative GPA below the 2.0 minimum will be on academic probation.

2. A student will be removed from academic probation when his/her cumulative GPA and current GPA are 2.0 or above.

Academic Policies & Standards

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).

Global/Intercultural credit courses are identified on the transcript by a “G” following the course number (example: ANTH 101G).
Utah Valley University offers the following degrees: Master of Education, Master of Nursing, Master of Business Administration; Bachelor of Social Work; Bachelor of Arts; Bachelor of Fine Arts; Bachelor of Science; Associate in Science; Associate in Arts; Associate in Science in Business; Associate in Science in Nursing; Associate in Applied Science; Associate in Pre-Engineering; Diplomas, and Certificates are also offered.

GENERAL GRADUATION REQUIREMENTS

Students are expected to familiarize themselves with the rules and regulations of both the College 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. Utah Valley University 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

A candidate for a Bachelor's Degree must complete a minimum of 120 semester hours, 40 of which must be upper-division credits (level 3000 or above); an Associate Degree, a minimum of 60 semester hours; a diploma, a minimum of 50 semester hours; and a one-year certificate, a minimum of 30 semester hours. In addition to the appropriate number of credit hours, to be eligible for graduation a candidate must show satisfactory completion of appropriate program requirements. Please see the Graduate Studies section of the catalog regarding credit requirements for Master degree programs.

Computer Literacy

It is recommended students complete a computer literacy course before Graduation. The course should cover the areas of: Word Processing Applications; Spreadsheet Applications; Presentations Applications; and Database Applications. The recommended course is DGM 2010. A course (DGM 1010) is available that covers Basic Computer Concepts/Operating Systems and Basic Internet/E-mail Applications. All Woodbury School of Business Graduates are required to satisfy computer proficiency requirements. See your advisor for specific details.

Grade Point Average Requirement

A 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 (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 Degree Programs and 5 years to complete all others. In the case of Bachelor's 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 bachelor degree level. Courses that may be used to complete this re-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 take an assessment before that credit is awarded. See the Graduation and Transfer Services department (BA 114) for further information. For a complete listing of the courses offered at UVU to fulfill this requirement, see the Course Descriptions section in the back of this catalog for courses ending in "G".

Residence Requirement

At least 30 credit hours in residence at UVU or satellite sites are required for a Bachelor’s Degree, with 10 hours earned during the last 45 earned hours. Two-year degrees require at least 20 hours in residence. One-year certificates require at least 10 hours in residence. Please see the Graduate Studies section of the catalog regarding residence requirements for Master degree programs.

Multiple Degrees

Individuals may earn either an AS or an AA degree from UVU. A student having an AS/AA degree from UVU may not earn another AS/AA degree at UVU except for an APE, ASN, or ASB degree.

Students may also earn AAS degree(s) and bachelor degree(s). Additional AAS degrees may be awarded when all requirements for each degree are satisfied.

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

1. All UVU general education requirements must be satisfied.
2. Thirty semester hours beyond the original degree must be completed.
3. Twenty semester hours of the thirty hours in No. 2 above must be completed at UVU (resident hours).
4. Approval of a second bachelor’s by the supervising dean.

Dual Majors (One degree—two majors)

A degree with dual majors may be awarded when students complete all requirements for two approved degrees, but have not met the required “Thirty semester hours beyond the original degree” requirement as listed above for a Second Bachelor’s Degree. Students receive a single Bachelor degree and diploma, but have two different majors listed on their transcript and diploma.

Other information regarding the dual major:
1. Students apply for graduation for one degree, and only one degree type, such as a Bachelor of Science, or a Bachelor of Arts.
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. Students may have no more than 3 substitutions from the two majors combined.
4. Minors may not be obtained in either major, but may be awarded from another area if all requirements are met.
5. Credits may exceed the maximum 126 credit-hour limit.
6. Students may not apply for a dual major if they have already graduated in one of the majors.
7. Students may not apply for graduation for one of the dual majors separately after being awarded the dual major degree.

DEGREE REQUIREMENTS

Master Degree

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

Bachelor of Arts/Science Degree

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 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 2020G levels, or transferred equivalents. Some ESL course work may be used to fulfill this requirement. See the ESL department for specific details.

Associate in Arts Degree

Graduation requirements for the Associate in Arts/Science Degree 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.

Associate in Science Degree

Graduation requirements for the Associate in Science Degree 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.

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 AS/AA degree and as Humanities credit for the AAS degree.

Associate in Applied Science

Graduation requirements for the Associate in Applied Science Degree 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
A student will:

- Completion of department general education requirements;
- Completion of specific department major requirements.

**Diploma**

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

**Certificate**

Certificates require a minimum of 30 credit hours. Many departments offer one-year certificates. Not all departments offer a certificate. See specific department program listings for details.

**GENERAL GRADUATION INFORMATION**

**Application for Graduation**

Graduation is not automatic. Prospective graduates must complete the on-line Graduation Application via Wolverine Track in UVIlink which includes payment of the application fee. 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. Students failing to complete graduation requirements by the following dates for which they have applied must reapply for graduation and pay another graduation fee.

**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 and DSST 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 and pay the appropriate fees 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 desirable, but not mandatory.

**FINANCIAL HOLDS**

Candidates for graduation who owe money to Utah Valley University 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’s degrees.) These Distinctions are awarded and based only upon GPA and are not related to participation in the UVU Honor’s Program.

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

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

Please contact the Honors Program (LC 204) for information about the Utah Valley University Honors Program.

**VALEDICTORIANS**

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. Colleges and Schools with bachelor degrees will select a valedictorian for both associate degree graduates and one for bachelor degree graduates.

Approved guidelines will provide the framework for the process of selecting valedictorians.

**GENERAL EDUCATION INFORMATION**

General Education assists students to become independent, creative, and productive learners. The knowledge and skills identified as Essential Learning Outcomes provide a broad educational background that benefits students for a lifetime, regardless of their career paths.

Completion of the Utah Valley University 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.

**Important Learning Outcomes**

**Engaged, Integrated, 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 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**

[Refers to the specific classes required for General Education by the State Legislature. All classes must include this outcome.] 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.

**NOTE:** Students taking general education courses without having declared a specific major are advised in the Academic Counseling Center, LC 402, Phone: 801-863-8425. Students who have declared a specific major that is taught at UVU will be directed to the appropriate 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:

AS  -  American Institutions
BB  -  Biology
CC  -  English Composition
FF  -  Fine Arts
GI  -  Global Intercultural Requirement
HH  -  Humanities
LH  -  Foreign Language
MM  -  Mathematics
PP  -  Physical Science
SS  -  Social Science
XF  -  Must be taken with another course to equal FF (see department)

GENERAL EDUCATION REQUIREMENTS
Associate in Arts/Science Degree
Bachelor of Arts/Science Degree

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/Science Degree 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.

Complete one: ................................................. 3 or 4 credits
MATH 1030 Quantitative Reasoning *(recommended for Humanities or Arts majors)
MATH 1040 Introduction to Statistics *(recommended for Humanities or Arts majors)

Social Science majors or
MATH 1050 College Algebra*(recommended for Business, Education, Science, and Health Professions Majors)*
or
One 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.

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

American Institutions
Complete one of the following: ........................................... 3 credits
POLS 1000 American Heritage
HIST 2700 & 2710 US History to sânscie 1877
HIST 1700 American Civilization
HIST 1700 US Economic History
POLS 1100 American National Government

Complete the following: .................................................. 5 credits
PHIL 2050/205G/205H Ethics and Values
HLTH 1000 Personal Health & Wellness
or
PES 1097 Fitness for Life

Distribution Requirements ........................................ 18 credits

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
BIOL 1010 General Biology .............................................. 3.0
BIOL 1070 Genetics ......................................................... 3.0
BIOL 1200 Prehistoric Life .................................................. 3.0
BIOL 1500 Biological Anthropology ..................................... 3.0
BIOL 1610 College Biology I .............................................. 4.0
BIOL 1620 College Biology II ............................................. 3.0
BIOL 204R Natural History Excursion* ................................... 3.0
BIOL 2250 Environmental Biology ...................................... 3.0
BOT 2050 Field Botany ...................................................... 3.0
BOT 2100 Flora of Utah .................................................... 3.0
BOT 2400 Plant Kingdom ................................................... 4.0
BTEC 1010 Fundamentals in Biotechnology .............................. 3.0
HLTH 3400 Human Diseases .............................................. 3.0
MICR 2060 Microbiology for Health Professions ...................... 4.0
NUTR 2020 Nutrition Through Life Cycle ............................... 3.0
ZOO 1500 Introduction to Human Anatomy/Physiology ............. 3.0
ZOO 2320 Human Anatomy ............................................. 4.0
* May be used as the third science only

Physical Science
ASTR 1040 Elementary Astronomy ...................................... 3.0
CHEM 1010 Introduction to Chemistry .................................. 3.0
CHEM 1110 Elemen. Chemistry for the Health Sciences .......... 4.0

CHEM 1120 Organic Chemistry .......................................... 4.0
CHEM 1210 Principles of Chemistry ..................................... 4.0
ENVT 1110 Intro to Environmental Mgmt ................................ 3.0
GEO 1010 Introduction to Geology ...................................... 3.0
GEO 1020 Prehistoric Life .................................................. 3.0
GEO 1080 Introduction to Oceanography ............................... 3.0
GEO 1220 Historical Geology .............................................. 3.0
GEO 204R Natural History Excursion* ................................... 3.0
METO 1010 Introduction to Meteorology ............................... 3.0
METO 1060 Climate of the Earth ......................................... 3.0
PHSC 1000 Survey of Physical Science .................................. 3.0
PHYS 1010 Elementary Physics .......................................... 3.0
PHYS 1050 Investigations of Solar System ............................. 3.0
PHYS 1080 Investigation of Galaxies ..................................... 3.0
PHYS 1070 Cultural Astronomy .......................................... 3.0
PHYS 1080 Life in the Universe .......................................... 3.0
PHYS 1700 Physics Descriptive Acoustics .............................. 3.0
PHYS 1800 Energy You and the Environment ......................... 3.0
PHYS 2010 College Physics I .............................................. 4.0
PHYS 2020 College Physics II ............................................. 4.0
PHYS 2210 Physics for Scientists/Engineers I ......................... 4.0
PHYS 2220 Physics for Scientists/Engineers II ....................... 4.0
TECH 1010 Understanding Technology* .................................. 3.0
*May be used as the third science only

B. HUMANITIES—ONE COURSE MINIMUM
AMST 2000 Introduction to American Studies ......................... 3.0
ASL 202G Intermediate American Sign Language II .................. 4.0
CHIN 202G Intermediate Chinese II ..................................... 4.0
CINE 2150 Crit Intro Cinema Studies ................................... 3.0
CINE 217G Race Class and Gender in US Cinema ...................... 3.0
COMM 1020 Public Speaking ............................................ 3.0
COMM 1050 Introduction to Speech Communication ................ 3.0
COMM 1500 Introduction to Mass Communications ................ 3.0
COMM 2170 Race Class and Gender in US Cinema ................... 3.0
ENGL 2030 Rhetoric of Persuasion ...................................... 3.0
ENGL 2130 Science Fiction .................................................. 3.0
ENGL 2150 Critical Intro Cinema Studies ............................... 3.0
ENGL 217G Race Class and Gender in US Cinema ..................... 3.0
ENGL 2200 Introduction to Literature .................................... 3.0
ENGL 2230 Myths/Legends in Literature ................................ 3.0
ENGL 2250 Creative Procedure/Image Writing .......................... 3.0
ENGL 2300 Shakespeare .................................................... 3.0
ENGL 2310 Technical Communication .................................... 3.0
ENGL 2510 American Literature before 1865 .......................... 3.0
ENGL 2520 American Literature after 1865 ............................ 3.0
ENGL 2550 Critical Introduction to Literature ......................... 3.0
ENGL 2610 British Literature Before 1800 .............................. 3.0
ENGL 2620 British Literature After 1800 ............................... 3.0
ENGL 376G World Literature ............................................. 3.0
FREN 202G Intermediate French II ...................................... 4.0
GER 202G Intermediate German I ....................................... 4.0
HUM 1010/101G Humanities Through the Arts ....................... 3.0
HUM 2010/201G Arts in Humanistic Traditions I ...................... 3.0
HUM 2020/202G Arts in Humanistic Traditions II .................... 3.0
JPN 202G Intermediate Japanese II ..................................... 4.0
PHIL 1000 Introduction to Philosophy ................................... 3.0
PHIL 1250 Logical Thinking and Philosophical Writing .......... 3.0
PHIL 1610 Western Religions ............................................ 3.0
PHIL 1620 Eastern Religions ............................................. 3.0
PHIL 2110 Ancient Philosophy .......................................... 3.0
PHIL 2130 Medieval Philosophy ......................................... 3.0
PHIL 2150 Early Modern Philosophy ................................... 3.0
PORT 202G Intermediate Portuguese II ................................ 4.0
RUS 202G Intermediate Russian II ..................................... 4.0
SPAN 202G Intermediate Spanish II ................................... 4.0

C. FINE ARTS—ONE COURSE MINIMUM
ART 1010 Introduction to Visual Arts .................................... 3.0
ART 1050 Photography I ................................................... 3.0
ART 1110 Drawing I .......................................................... 3.0
ART 1340 Sculpture .......................................................... 3.0
ART 1360 Ceramics I .......................................................... 3.0
ART 1650 Watermedia I ...................................................... 3.0
ART 1720 Architectural Rendering ....................................... 3.0
**Baccalaureate Degrees at UVU or other colleges**

**complete lower division pre-majors for General Education requirements and could complete lower division pre-majors for General Education requirements and could complete**

**Science Degrees are designed to complete**

**The Associate in Arts and the Associate in Corporate and Technical Degrees require 25 additional credit hours.**

**See your specific academic department for further information on appropriate course work to complete a 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 DEGREE**

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” (PE/Safety/Environment/Health).

**A. ENGLISH**

1. ENGLISH 1010 Introduction to Writing 3 credits
2. ENGL 1010 Introduction to Writing 3 credits
3. MGMT 2200 Business Communications

**B. MATHEMATICS**

1. MAT 1000 Integrated Beginning and Intermediate Algebra 3 credits
2. MAT 1010 Intermediate Algebra
3. Any Higher Mathematics course
4. Any approved Departmental Mathematics Course

**C. HUMANITIES/FINE ARTS/FOREIGN LANGUAGE**

3 credits

**D. SOCIAL AND BEHAVIORAL SCIENCE**

3 credits

**E. BIOLOGY OR PHYSICAL SCIENCE**

3 credits

**F. PHYSICAL ED/HEALTH/SAFETY OR ENVIRONMENT**

3 credits

**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 Science or Arts Degree, 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 AA/AS 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 AND UNIVERSITIES**

Since these schools are not bound by Utah State Regents’ policies, colleges and universities outside the Utah System of Higher Education may have specific requirements and may not accept all courses available at UVU.

**BRIGHAM YOUNG UNIVERSITY**

Brigham Young University accepts the Associate in Science/Arts Degree 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.
POLICY STATEMENT
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 for 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.

STUDENT DISCIPLINARY PROCEDURES
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 Campus Police 801-863-5555 (emergency) or the office of Student Life 801-863-8694 (non-emergency).

GENERAL RIGHTS
A student, while properly enrolled at the institution, will have the right to the following institution services, treatment, and information:

1. Free and open discussion, inquiry and expression, subject to constitutional limitations regarding time, place, and manner.
2. Protection against the institution’s improper disclosure of students’ records, work, views, beliefs, and political associations.
3. Procedural safeguard and personal privacy with respect to testing for drugs and infectious diseases (e.g. AIDS).
4. Timely and understandable information and respectful treatment regarding policies, refunds, lab fees, course fees, library fines, lab breakages and liability, etc.
5. Freedom from a discriminatory and offensive campus environment that may cause emotional stress or a hostile or offensive campus environment directed toward another person.
6. Freedom from sexual harassment.
7. Full protection under the Constitution for freedom of the press, including the Constitutional limitations on prior restraint and censorship.
8. Due process of law recognized as being essential to the proper enforcement of institution rules.
9. Security for his/her person, papers, and personal effects against unreasonable searches and seizures.
10. Freedom to form and to operate an organized student association within the guidelines prescribed by the institution.
11. Access to the institution’s Ombudsman for consultation in matters of personal and school issues and concerns.
12. 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.
13. Access to all student government sponsored activities.
14. Accurate information in advertising, recruitment, and orientation efforts.

**GENERAL RESPONSIBILITIES**
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:

1. Failure to respect the right of every person to be secure and protected from fear, threats, intimidation, harassment, hazing, and/or physical harm caused by the activities of groups or individuals.
2. Sexual assault, harassment, or any other unwelcome verbal or physical sexual activity, including the support or assistance of such activities.
3. Unauthorized seizure or occupation of any institution building or facility.
4. Obstruction, disruption, or interference with teaching, disciplinary proceedings, institution-sponsored activities, services, or events.
5. 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 Director of Public Safety, John Brewer.
6. Unlawful use, possession, distribution, sale, manufacture, or possession for purposes of distribution or sale of 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.
7. Initiation or circulation of any false report, warning, or threat of fire, bombs, or explosives on College premises or during institution-sponsored events.
8. Violation of the Utah Indoor Clean Air Act and/or the institution no smoking policy (Institution Policy 158 Tobacco).
9. Sale, possession, manufacture, distribution, or consumption of alcoholic beverages on College properties or during institution sponsored events on/off campus.
10. Unauthorized possession, forgery, alteration, misuse, or mutilation of College documents, records, educational materials, identification, (i.e. personal ID, parking decal) or other institution property.
11. Violation of city ordinances and/or state statutes regarding gambling.
12. Delivery of false information to institution personnel.
13. 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.
14. Intentional or reckless destroying, defacing, vandalizing, damaging, or misusing property, equipment, materials, services, or data of the institution.
15. Unauthorized possession or use of a key, or a combination to any institution facility or equipment.
16. Obscene or lewd conduct as defined by institution policy, city ordinances, and/or state statutes.
17. 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 generated material.
18. Unauthorized use of or charges to any institution telephone for long distance calls. Institution telephones are for business use only.
19. 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.
20. Intent to defraud the institution in any financial matter including, but not limited to 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.
21. Failure to conduct oneself in a way not to endanger the health and well-being of other students and institution personnel.
22. Unauthorized commercial ventures or enterprises on institution property.
23. Bringing animals on campus except for those serving the disabled or those used for educational purposes.
24. 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.

Students are encouraged to report violations of this policy to an appropriate institutional office.

**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, which will enhance the learning environment.
3. Faculty members have the right to set classroom standards of behavior and attendance requirements. Students will be expected to meet these requirements and make contact with faculty members when
4. Each student is expected to maintain academic ethics and honesty in all its forms, including but not limited to, cheating and plagiarism, and fabrication as defined hereafter:

a. Cheating is the act of using, 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 another’s academic work.

b. Plagiarism is the act of appropriating any other 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:

i. Citation of information not taken from the source indicated. This may include the incorrect documentation of secondary source materials.

ii. Listing sources in a bibliography not used in the academic exercise.

iii. 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.

iv. Submitting as your own any academic exercises, (e.g., written work, printing, sculpture, etc.) prepared totally or in part by another.

A. EXPECTATIONS – 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 other.

B. WHERE POLICY APPLIES - 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.

C. INFORMAL RESOLUTION - Informal resolution of differences or appeals shall be encouraged.

D. ACADEMIC INFRACTIONS (GRADES) - 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.

E. GENERAL INFRACTIONS - Responsibility for and authority over General Infractions shall reside with the Dean of Students.

F. COMPOSITION OF CAMPUS APPEALS BOARD - 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’ supervisor, and three students appointed by the Student Body President. Appointments of faculty and staff shall be for a three-year rotating term. Three staff 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 arrange the Collaborative board to elect the chair of the Board in a non-voting capacity.

G. RESPONSIBILITIES OF BOARD - 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, following the procedures set forth in Section V.N. 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.

H. CONFIDENTIALITY - 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.

I. SANCTIONS - Sanctions must be applied in a fair and 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.

1. 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

2. 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

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3. Interim suspension: In urgent circumstances, interim suspension may be imposed as outlined below:
   a. A classroom instructor, Department Chair, or Dean may ask Campus Police to remove a student immediately from the classroom or other academic area.
   b. If a student is removed, pursuant to Section V, H, 3, an immediate report must be made to the Director of Judicial Affairs by the instructor, Chair, or Dean who instigated the removal.
   c. The Director of Judicial Affairs may impose institutional suspension prior to the completion of appeals and final imposition of sanctions.
   d. Interim suspension may be imposed only:
      i. to ensure the safety and well-being of members of the Campus Community or preservation of institutional property; or
      ii. to ensure the student's own physical or emotional safety and well-being; or
      iii. if the student poses an ongoing threat of disruption of, or interference with, the normal operations of the institution.
   e. 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.
   f. The interim suspension does not replace the regular due process, which shall proceed on the normal schedule.
   g. 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).

J. MULTIPLE OFFENSES, PATTERN OF BEHAVIOR. – If a student who is 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.

K. NO REPRISALS. – 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.

L. DISCIPLINARY RECORDS. – Records of disciplinary actions shall not be made a part of the students academic record except through the appearance in the academic record of grade reductions or failing grades as provided in Section V, H, 1, but shall become part of the student’s disciplinary record. The disciplinary record shall be reviewed and expunged as set forth in Section V, P, 4, b. 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.

M. CONCURRENT JURISDICTION. – 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, according to the procedure outlined in Section V, N. of this policy. The Dean of primary jurisdiction shall then control the process and communicate outcomes to the other Dean.

N. 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.

O. APPEALS PROCESS, DETERMINATION AND 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 all 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 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
an appeal is 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, as outlined in Section V, H,
3, 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 Affairs, with a copy to the
Board if the student appealed to the Board
prior to receiving a decision in writing.
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 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.

P. CAMPUS APPEALS BOARD HEARINGS
- The Campus Appeals Board Chair shall
convene a subcommittee from its members
(Section V, E.). 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 in accordance with the process
detailed in Section V, N.

Q. DISCIPLINARY RECORDS—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.

1. When a sanction has been imposed and
made final after any appeals process (see
Section V, N.), a report shall be submitted
to the Office of Judicial Affairs by the final
deciding instructor, officer, or Board.

2. 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.

3. When the student’s disciplinary record
shows multiple similar infractions or a
pattern of improper behavior, the Director
of Judicial Affairs shall, as provided in
Section V, I., 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.

4. 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.

a. Factors relevant to the decision to retain or
delete specific records include:
   i. How much time has elapsed since the
infraction (generally, at least five (5)
years).
   ii. Whether the student has graduated.
   iii. The seriousness of the infraction and
the resulting sanctions - institutional
suspension, expulsion, or 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.
   b. Students shall apply to the Director of
Judicial Affairs to have their disciplinary
records expunged in accordance with the
factors given in Section V, P, 4, a. 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, as specified in Section V, P, 4, a.
TUTORING AND 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

Coordinator: Wendy Simmerman
Office: LA 201
Telephone: 801-863-8310
Online: http://www.uvu.edu/academictutoring
E-mail: wendy.simmerman@uvu.edu

Free tutoring assistance for all classes other than math or English is available in the Academic Tutoring Center to all UVU students. Services include a drop-in tutoring lab, one-on-one tutoring by appointment, supplemental instruction, and group study sessions. Solutions manuals and textbooks for select courses can be checked out for use in the lab, and other materials are available for student use.

Learning Strategies Support

Manager: Pat Nelson
Office: LC 405 Q/R
Telephone: 801-863-7418
E-mail: 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
• Web Page: http://uvu.edu/learningstrategies/

Math Lab
Drop In Lab: LA 201

Manager: Kathryn Van Wagoner
Office: LA 201
Telephone: 801-863-8310
Online: http://www.uvu.edu/mathlab
E-mail: kathryn.vanwagoner@uvu.edu

The Math Lab provides tutoring, classroom support, and outreach programs which facilitate student success in mathematics. Free drop-in and appointment-based math tutoring is offered in LA 201 and several other satellite locations, including the Calc & Stats Lab. Online tutoring is also available via MathLab Online, a live interactive whiteboard. Classroom-based programs include Structured Learning Assistance and Supplemental Instruction. Outreach programs such as Math Orientation and Math Week engage and inform students.

Writing Center
Drop In Lab: LI 208

Faculty Director: Joshua Hilst
Coordinator: Leigh Ann Copas
Assistant Coordinator: Rebecca Disrud
Office: LI 208
Telephone: 801-863-8936
Online: http://www.uvu.edu/owl
E-mail: copasle@uvu.edu
The Writing Center provides free one-on-one tutoring to all UVU students. Students may bring writing assignments for any class and can either make an appointment or drop in to meet with a tutor. In addition, the Center offers writing workshops, handouts, practice grammar tests, reference books, textbooks, writing manuals, ESL materials, and the On-line Writing Lab (OWL) at http://www.uvu.edu/owl.

ACADEMIC COUNSELING CENTER
Office: LC 402
Telephone: 801-863-8425

Hours:
Monday 7:30 a.m. – 7:00 p.m.
Tuesday 7:30 a.m. – 7:00 p.m
Wednesday 7:30 a.m. – 7:00 p.m.
Thursday 7:30 a.m. – 7:00 p.m.
Friday 7:30 a.m. – 6:00 p.m.
Saturday 8:00 a.m. – 1:00 p.m.

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 and 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 and 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 Utah Futures career and educational software
- Career resource library
- Vocational evaluation services

ACADEMIC TUTORING
Coordinator: Wendy Simmerman
Office: LA 201
Telephone: 801-863-8310
Online: http://www.uvu.edu/academiccounseling
E-mail: wendy.simmerman@uvu.edu

See Academic Tutoring under Tutoring and Academic Skills Services (TASS) in this section.

ACCESSIBILITY SERVICES DEPARTMENT
(SERVICES FOR STUDENTS WITH DISABILITIES)
Office: LC 312
Telephone: 801-863-8747

Provides accommodative services necessary for the integration of students with disabilities into all aspects of college life in accordance with The Americans with Disabilities Act and other applicable legislation. UVU will take all steps necessary to ensure that no qualified individual with a documented disability is excluded from participation in or be denied the benefits of services, programs, or activities of UVU for which he/she would otherwise qualify to participate. In addition, individuals with disabilities will not be subjected to discrimination by the college or its personnel. Services are available to students who have documentation substantiating various conditions (including a physical, psychological, or learning disability). Services include: sign language interpreting, testing accommodations, text in audio format, note taking, adaptive equipment, Brailling, and other individualized services. The office also houses the ADA Coordinator; the individual charged with determining eligibility and arranging accommodations for qualified employees.

ALUMNI ASSOCIATION
Office: AL 206
Telephone: 801-863-8179

The purpose of the UVU Alumni Association is to create lasting and mutually beneficial 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, and other similar offerings. In addition, the Alumni Association maintains its home page, located on the internet at www.uvualumni.org, where both students and alumni can access various services of the association through the on-line community.

The UVU Alumni Association also sponsors the Student Alumni Board, 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 Board is open to all students, and applications are accepted during Spring Semester. For more information about this and other Alumni related topics, call 801-863-8179.

BOOKSTORE
UVU Bookstore
Located: SC 102
Telephone: (801) 863-8641

Hours:
Mon-Thurs 7:45 am-7:00 pm
Fri 7:45 am-5:00 pm
Sat 9:00 am-1:00 pm (Fall and Spring semesters only)
Mon & Fri 8:00 am-5:00 pm
(Teacher and Teacher only)
Tue, Wed, Thurs 8:00 am-6:00 pm
(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, but also everything else you will need for your college career: school supplies, computers, I-pods, academically-priced software, general reading material, reference books, candy and sundry items, and UVU apparel.

CAMPUS CONNECTION
Student Center SC 106
Telephone: 801-863-8797

Campus Connection is the place to go to get your UV OneCard (Student ID) and information on all student activities sponsored by or held at the Utah Valley University Campus. Campus Connection is open from 8:00 a.m. to 6:00 p.m. Monday through Thursday, 8:00 a.m. to 5:00 p.m. on Friday, and 9:00 a.m. to 2:00 p.m. on Saturdays. Holiday hours may vary.

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 www.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 www.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 $20. (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 to Campus Connection in order to obtain a UTA bus pass. Replacements are $20.

**Other Services**

Tickets and Smiths Tix for various Campus and community events; UTA Bus Passes; Faxing domestic and international; off-campus housing information; general information.

**US Post Office**

Student Center SC 104  
Telephone: 801-863-6067

The US Postal Service is also available across the hall from Campus Connection. Hours are Mon-Thurs 8:00 a.m. - 8:00 p.m., Fri 8:00 a.m. - 5:00 p.m., and Sat 9:00 a.m. - 2:00 p.m. 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. Mail pick-up is at 2:45 p.m. Monday - Friday and 12:45 p.m. on Saturday. Cash, Check, Credit, Debit Cards and UV OneCards are accepted.

**CAREER DEVELOPMENT CENTER**

Office: LC 409  
Telephone: 801-863-6364  
E-Mail: careerdevelopmentcenter@uvu.edu  
http://www.uvu.edu/cses/  
Hours: 8:00 a.m. - 5:00 p.m. Mon-Fri

Our mission is to provide comprehensive employment related services to students and alumni, and to foster professional relationships with faculty, staff and administrators. We seek career employment opportunities by developing valued relationships with premier employers. We help students and alumni develop job search skills leading to meaningful career and service to society. Our services include access to:

- UV Job Board at www.uvu.edu/cdc/ for students and employers (on-line job posting, job search, submitting resumes, scheduling interviews, etc.)
- Off-campus full-time, part-time, summer and temporary job openings
- Federally-funded work study jobs
- Internship opportunities
- Counseling on career employment planning and preparations
- Training and workshops on writing resumes, interviewing, networking, negotiating and more
- Labor market, salary and career employment information
- Career and Student Employment Fairs
- Local, national and international employers recruiting on campus
- Group and class presentations on career employment related topics
- Career resiliency
- Career options for different majors
- Graduate School entrance test prep
- Entrance essays
- Career and interest inventories

**THE CENTER FOR THE ADVANCEMENT OF LEADERSHIP**

Director: Kirk Young  
Office: LC 302  
Telephone: 801-863-6466  
E-mail: Kirk.Young@uvu.edu  
Fax: 801-863-6136

Leadership Certification Program

The Center for the Advancement of Leadership (CAL) has designed an extra-curricular Leadership Certification Program 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 Leadership Certification Program 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 www.uvu.edu/leadership, attending our monthly Master Mind Meeting the first Monday of each month, requesting a DVD, or visiting our office in LC 302 (863-6466).

**CHILD CARE RESOURCE AND REFERRAL MOUNTAINLAND**

Coordinator: Julia Mohr  
Office: EE 009  
Telephone: 801-863-8557  
Website: www.uvu.edu/ccrr

Child Care Resource and Referral Mountainland (CCR&R) 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 www.uvu.edu/ccrr and receive a free personalized list of available state-regulated child care that meets their requested work schedule and family size needs. CCR&R 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. CCR&R also offers services to Spanish speaking child care providers as well as grants and program consultation to child care family home providers and child care centers.

**CLUBS AND ORGANIZATIONS**

Office: LC 101  
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 over 115 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, and most of all, have fun. For information on existing clubs and/or procedures for chartering a new club, look on the web www.uvu.edu/clubs, or contact the UVU Clubs Office in LC 101.

**DEPARTMENT OF CAMPUS RECREATION**

Office: TBD  
Telephone: 801-863-6163

The Department of Campus Recreation offers a variety of recreational opportunities for UVU students. Whether it is Intramurals, Outdoor/ Academic related Adventures or Sport Clubs, there is something for everyone. UVU Campus Recreation strives to offer students a chance to recreate on and off campus no matter what one’s interests may be.

**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.

The Centre Courte main food court is located on the main floor of the Sorensen Student Center. With the recent expansion of the Student Center, food service options are plentiful. The “CENTRE COURTE” has a large variety of retail
food options: Wolverine Wok, Courte Side Grille, Wolverine Bake Shoppe, JFE Sushi Bar, Fresh Wrapz, The Italian Café, Hogi-Yogi, Teriyaki Stix, and La Esquina Fresh Mexican Food complete the food court options list. Areas of the Food Court open at 10:00 a.m. and close at 7:30 p.m.

Located directly above the Food Court is the Valley View Room Cafeteria. It is named for its exquisite view of the Utah Valley, and offers a more relaxed and unique atmosphere for students, faculty and staff. Its hours of operation are 7:00 a.m. to 4:00 p.m. Four remote food service locations are also available. The Trades Café is located on the 3rd floor of the Gunther Trades building. An additional food kiosk has been established on the 4th floor of the Losee Center of 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. Our last remote is the L.A. Café. It is uniquely positioned in the hallway between the Events Center, the Liberal Arts Building and the Activity Center. It is just across the hallway from the newly built Jamba Juice. These operations are open Monday through Friday at posted times.

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 and is in charge of Concession Operations at the Events Center. Dining Service provides an excellent source of employment opportunities for UVU students in all of these venues.

UCCU CENTER
Office: MC 012
Telephone: 801-863-8767

The UCCU Center is a multipurpose facility serving the University and the community. The Events 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 an associate degree.

Financial Aid is available in all sports, with awards ranging from “Full-Ride” scholarships to partial scholarships for tuition, fees, or books.

The Wolverines compete in the National Junior College Athletic Associations Region 18, Scenic West Athletic Conference, in the following sports: Baseball, Men’s and Women’s Basketball, Men’s and Women’s Cross Country, Men’s and Women’s Indoor and Outdoor Track and Field, Women’s Volleyball, Men’s Golf, and fast pitch Softball.

Club sports associated with the athletic department are Men’s and Women’s Soccer, Men’s Volleyball, Lacrosse, Men’s and Women’s Tennis, and Rodeo.

For more specific information regarding any sport or team, please call our Athletic Department Office at (801) 863-8653, or look us up on the internet at: http://wolverinegreen.cstv.com/.

Cheerleaders and “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 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, and more information may be obtained by calling Student Leadership and Activities at 801-863-8150.

EQUITY IN EDUCATION: TRAINING AND RESOURCE CENTER
Director: Jennie Briggs
Office: LC 303b
Telephone: 801-863-8498
Website: www.uvu.edu/equitycenter

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’ 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.

INTERNATIONAL CENTER
Office: WB 147
Telephone: 801-863-8342
http://www.uvu.edu/international
E-mail (for international student inquiries): international@uvu.edu
E-mail (for international study programs): studyabroad@uvu.edu
General Office Hours: Mon-Fri 8:00 am-5:00 pm

International Student Advisement Hours:
Mon-Fri 9:00 am-4:00 pm and Fri 12:00 noon-4:00 pm

As UVU’s hub for all things international, the International Center helps the University prepare globally competent citizens. To accomplish that, the Center collaborates closely with the Colleges, Schools, and other units across campus to create a community of students, staff, and faculty that share intercultural and international knowledge, attitudes, experiences, and efforts. The Center focuses on three areas.

Global Engagement Initiatives: The Center prepares globally competent citizens by bringing international experiences to campus. The Center co-sponsors the Global Spotlight Country Program, the New York Times Global Review, conferences, colloquia, faculty exchanges, workshops, lecture series, awards ceremonies and other events that broaden the international perspective of faculty, staff, students, and community members.

International Study Programs: The Center enriches the UVU educational experience by engaging the world through international study opportunities. These experiences push participants to experience both their own and their host country and culture more critically, thereby informing their worldview. International study opportunities include international internships, study abroad, service learning, and mentored research to places like Brazil, Canada, China, Costa Rica, England, France, Germany, Ghana, Ireland, Italy, Japan, South Korea, Mexico, Namibia, Russia, Samoa, Scotland, Spain, and Ukraine.

International Student and Scholar Services: The Center supports the University’s efforts to
prepare globally competent citizens by increasing international student enrollment, retention, and success, and increasing international faculty exchange. The Center also ensures that international students and faculty stay in legal compliance with all relevant visa requirements.

**INTRAMURAL SPORTS**
Manager: Robb Shirley
Office: SC 108g
Telephone: 801-863-6163
E-mail: robb.shirley@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, these 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

**LIBRARY**

Library
Telephone: 801-863-8886
Fax: 801-863-7065
http://www.uvu.edu/library

Director: Michael J. Freeman
Office: Library 502e
Telephone: 801-863-8751

Hours:
7 am - 12 am Monday-Friday
8 am - 7 pm Saturday

The library houses over 245,000 volumes, 20,000 videos, and over 60,000 periodicals in print or electronic format. Reference service is available to assist students doing research; formal classroom instruction is also available. The library network provides electronic access to 130 indexes and databases, six full-text newspaper databases, and library catalogs throughout Utah, the United States, and around the world. Full Internet access is provided. Through the Utah Academic Library Consortium, UVU student cards are accepted at all public and private academic libraries in the state. Web-based Interlibrary Loan moves materials quickly between consortium members. The new library hosts seven classrooms, three computer classrooms, the information commons, the writing center, visual arts lab, specialized hardware and software for students with disabilities, a deaf studies lab, the Center for Teaching Excellence, and an art gallery.

**LOCKERS**

Physical Plant Office
936 South 400 West, Orem
(Next to Parking Services)
Hours: Mon - Fri, 7:00 am to 5:00 pm
Telephone: (801) 863-8130

Lockers are available for student use in the Gunther Trades 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).

**MULTICULTURAL CENTER**

Office: WB 146s
Telephone: 801-863-8357

The Multicultural Center provides a full range of support services targeting American minorities, but not excluding others. Our mission is to promote educational opportunities and intercultural enrichment for diverse heritage students and the college community of UVU. We believe in nurturing student achievement and developing relationships that will support student success, academic growth, retention, and completion of educational programs.

Services include:
- recruitment and retention programs
- educational and cultural programs
- academic and financial aid advising
- tutoring and counseling
- scholarship information
- computer/study area access
- social gatherings
- connection to ethnic clubs
- leadership opportunities
- cultural talent opportunities
- registration assistance
- opportunity to make connections with students of diverse heritage

**NATIONAL STUDENT EXCHANGE**

Office: LC 405a
Telephone: 801-863-6750
E-mail: JulieB@uvu.edu

The National Student Exchange (NSE) provides opportunities for you, as an undergraduate, to study for up to one calendar year at another NSE member college or university. With over 200 colleges and universities from which to choose, you should be able to find a campus with just the right combination of courses, facilities, and environment to meet your personal and academic needs and interests. As you consider the possibilities, notice that 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

If you qualify for participation, having a 3.0 cumulative GPA and one-year of university work, you will 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 and reap the rewards of doing so.

OFF-CAMPUS HOUSING
Office: SC 103
Hours: Mon - Thurs, 8:00 a.m. - 8:00 p.m.
Fri, 8:00 a.m. - 5:00 p.m.
Sat, 9:00 a.m. - 2:00 p.m.
Telephone: 801-863-8797
http://www.uvu.edu/classifieds/housing
E-mail: campusconnection@uvu.edu

The Off-Campus Housing Office provides a variety of housing services. Information concerning local housing is available at the Housing Office, on our website: www.uvu.edu/classifieds/housing, or it can be mailed to you.

The UVU campus does not provide dormitories, but they work with local landlords to provide accurate and up-to-date information on all housing listed by the Housing Office.

Should disputes between a Landlord and a UVU Student Tenant arise, a free mediation service is available through the office of Judicial Affairs & Dispute Resolution located in SC-107, 801-863-8694.

THE OFFICE OF PROSPECTIVE STUDENT SERVICES
Losee Center 408
800 West University Parkway
Telephone: 801-863-8811
Fax: 801-863-7305

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 efforts and events, while providing 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. Another function of PSS is the Enrollment Marketing division, which coordinates on-campus recruitment events and prospective student marketing publications.

Our office gives campus tours and coordinates recruitment events. If you would like to schedule a tour, attend a recruitment event, or receive additional information about UVU; please call 801-863-8811 or visit our website, http://www.uvu.edu/futurestudents/.

THE OFFICE OF STUDENT INVOLVEMENT
Office: LC 205
Telephone: 801-863-6227
Website: www.uvu.edu/studentinvolvement

Director: Grant Flygare
Telephone: 801-863-6227

The Office of Student Life builds and conducts activities for student centered and directed action learning (out of the classroom, hands-on guest-based, experience-centered learning). OSI works collaboratively with on and off-campus entities to bring about a full and exciting student life experience. OSI is engaged learning; is it student LIFE!

Students may join in student life experiences through creating or joining an Action Learning Community, engaging in activities with their Resident Engagement Communities, develop student leadership skills by becoming a Resident Engagement Coordinator, Action Learning Coordinator, or participating in numerous hosted and sponsored activities in the Student Engaged Learning ZONE in the UVU Sorensen Student Center. Student, faculty and community partners also combine in “problem solving” teams called Team Quest, to seriously address and collaboratively solve challenges facing our community.

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

OMBUDS
Office: SC 107
Telephone: 801-863-8665

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. We hope you use this person as a resource for help in a variety of difficult situations.

The Ombuds provides the following services:

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

All services are offered to UVU students free of charge.

ONE STOP STUDENT SERVICES
Office: BA 106
Francie Hallman, Director
Telephone: 801-863-8188
Website: www.uvu.edu/onestop

The mission of One Stop is to provide quality professional services in the areas of Enrollment, Financial Aid, Parking 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
• Parking
• Payments
• Financial Aid

Each of these processes is also available through UVU on-line services (UVLink).

OUTDOOR ADVENTURE CENTER
Office: SC 103h
Telephone: 801-863-7052
Hours: Monday – Friday, 8:30am – 6pm
Website: www.uvu.edu/oac

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! Come in today to plan your next adventure. For a list of rental prices visit www.uvu.edu/oac.

PARKING
Parking Services: 936 South 400 West,
Orem
Telephone: 801-863-8188

Adequate student parking is available on campus. Restricted parking zones, which are clearly posted, are provided for faculty, staff, visitors, and others. Students, faculty, and staff, and visitors are required to obtain parking permits for each vehicle parked on the University campus. Parking permits may be purchased at the Campus/Parking Services Office located at the northeast corner of the campus on 936 South 400 West in Orem, at the campus One Stop, or online at the parking services website, www.uvu.edu/parking. Temporary passes and visitor passes are only available at the Campus Parking Services Office.

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 East 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 property 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. Before a permit can be issued to an employee, proof of current registration must be shown. Student permits no longer require vehicle registration.

The Parking Services website also provides a campus map and a copy of campus parking regulations.

**Visitor Parking**

Visitors operating vehicles on University property must adhere to all state, local, and university traffic/parking regulations. Free visitor day passes may be obtained at the Parking Services Office at 936 South 400 West* in Orem. The free passes will allow visitors to park in any student or employee area on campus. Visitors may also park in the metered areas (40 minute time limit) or in Lots L or C, which are pay lots. Visitors using these pay areas are required to pay the fees for these areas.

*Temporarily located at 723 S 1200 W Orem until Summer 2011

**PEER TUTORING**

See Academic Tutoring in this section.

**PHYSICAL EDUCATION SERVICES**

Physical Education Building
Office: PE 119
Telephone: 801-863-8374

The Physical Education building serves as the home for many Physical Education classes, the Exercise Physiology Department, Intercollegiate Women’s Volleyball, Men’s Wrestling and the Intramural/Extramural Program.

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

UVU PE Issue t-shirts are required of students and faculty/staff using the Physical Education Building. Students with current activity cards are encouraged to use the facilities during open hours as well as faculty/staff members. 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.

**PROVO ADULT EDUCATION**

Office: 636 North 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. 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, and GED testing information and preparation.

**PRINTING SERVICES**

Printing
GT 533
Telephone: 801-863-8415

Copy Center
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.

**SORENSEN STUDENT CENTER**

Office: SC 103
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:

**SPORT CLUBS**

Manager: Robb Shirley
Office: SC 108g
Telephone: 801-863-6163
E-mail: robb.shirley@uvu.edu

UVU Dining and Catering Services - SC 201, 801-863-8664
Centre Courte (food court) - SC 111
Valley View Room (cafeteria and dining services) - SC 203
Scoops Ice Cream Shop - SC 103f
Centre Stage (dining, banquet, and multi-purpose services) - SC 108
UVU Bookstore - SC 102, 801-863-8641
Judicial Affairs and Dispute Resolution - SC 107, 801-863-8694
Ombuds - SC 107, 801-863-8665
Student Leadership and Activities - SC 105 801-863-8150
UVU Review (student newspaper) - SC 220, 801-863-8688
Outdoor Adventure Center (rentals, sales, adventure trips) - SC 103h, 801-863-7052
Intramural Sports and Sports Clubs - SC 108h, 801-863-6163
Student Health Services - SC 109, 801-863-8876
Community Connection (UVU I.D. card and proximity card services, information services, box office services) – SC 106, 801-863-8797
U.S. Postal Services - SC 104, 801-863-6067
Ragan Theater (400 seat facility for multi-purpose event and program functions) - SC 216, 801-863-8799
Copy Center - SC 102i, 801-863-8355
Utah Community Credit Union - SC 101j
801-863-6244
Off-Campus Housing Services - SC 106 801-863-8659
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

Scoops Ice Cream Shop - SC 103f
Centre Stage (dining, banquet, and multi-purpose services) - SC 108
UVU Bookstore - SC 102, 801-863-8641
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Off-Campus Housing Services - SC 106 801-863-8659
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
Utah Valley University offers a large variety of Sport Clubs. A sport club is a group of students (also faculty and staff) organized voluntarily for the purpose of furthering their common interests in a sport through participation and competition. Each club team is developed, organized, and managed by students with guidance from the Intramural & Sport Club Coordinator, Intramural & Sport Club Supervisor and club team coaches.

The emphasis for sport club activities is leadership. Sport Clubs are an excellent setting for the development of athletic skills, student leadership, and social outlets. Each club team’s success is determined by the collective efforts and organization of the student athletes. Participation in sport clubs is meant to be a learning experience for members through their involvement in fundraising, public relations, organization, administration, budgeting, and scheduling, as well as the development of skills in their particular sport.

The UVU Sport Clubs program is designed to serve individual interests in different sports. Students have the opportunity to engage in an in-depth sports experience that is not otherwise available through recreational programs. The Sports Club Program offers all regularly enrolled students an opportunity to participate at a competitive collegiate level. New and experienced athletes are actively recruited - many sport club athletes have never played their sport before joining a UVU team. Club teams practice on a weekly basis and compete at the local, regional, and national levels.

Membership is limited to Utah Valley University full or part-time students, staff, and faculty only. All students, faculty, and staff desiring membership in a sport club must have a valid UVU identification card.

STUDENT COMPUTING
Office: SC 116
Telephone: 801-863-8390
http://www.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, Campus Kiosks, student account management, Poredit, 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 230 computers and have Internet access and E-mail as well as popular application software to assist students with their class work.

The "D.L.C." lab is located in L1 which is the bottom floor of the new library. With 110 workstations this is the largest open lab on campus. The hours for this lab are 7:00 a.m. until 12:00 a.m. Monday through Friday and 8:00 a.m. to 7:00 p.m. Saturday. Check with the lab assistant for holiday hours. The lab’s telephone number is 801-863-8932.

The "Computer Loft" is located in SC215 on the second floor of the Student Center across from the Ragan Theater. The hours for this lab are 7:00 a.m. to 11:00 p.m. Monday through Thursday, 7:00 a.m. to 7:00 p.m. Friday, and 8:00 a.m. to 5:00 p.m. on Saturday, closed Sunday. Check with the lab assistant for holiday hours. The lab’s telephone number is 801-863-6081.

The "Fishbowl" lab is located in SC116 at the north end of the Student Center. The hours for this lab are 8:00 a.m. to 6:00 p.m. Monday through Friday. The lab’s telephone number is 801-863-8390.

The "Greenhouse" lab is located in PS101 at the junction of the Student Center, Science Building, and Activity Center. The hours are 8:00 a.m. to 11:00 p.m. Monday through Thursday, 8:00 a.m. to 7:00 p.m. Friday. The lab’s telephone number is 801-863-7147.

The "Wasatch" lab is located in room WC 206 on the second floor of the Wasatch Campus in Heber. The hours in this lab are 6:00 a.m. to 9:00 p.m. Monday through Thursday and 6:00 a.m. to 6:00 p.m. Friday. The lab’s telephone number is 801-863-6628.

UV Link provides access to class registration, student information, WebCT 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
(Utah Valley University Student Association (UVUSA))
Office: SC 105
Telephone: 801-863-8652
Activities Hotline: 801-863-LIFE

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 March, appointed student council positions are filled in 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 committees at any time during the year.

Information on involvement opportunities in student government can be obtained from the Student Government Office (SC 105).

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, therapeutic services (counseling), wellness programming, 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.

Wellness Programs
The Student Health Services wellness programs provide services that will enhance personal wellness and the ability to be successful in the five areas of health which are Physical, Academic, Emotional, Social, and Spiritual. Some of the programs offered at Student Health Services are: behavior modification, educational campaigns, classroom presentations, wellness workshops, and fitness opportunities. For all programming questions please contact us at 863-8876.

Therapy Services
Personal Counseling, Emotional Support 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 groups and 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 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 and referral to campus and community resources. Psychiatric consultation and treatment is available at Student Health Services with a referral from our therapists.

Medical Services
Medical services are available within Student Health Services (SC 221). Student health is promoted through a complete offering of medical services. We are able to write prescriptions, do lab work, physical exams, suture and treat many other medical conditions. We treat a variety of
Student Services

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 863-8876.

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

STUDENT MEDIA AND PUBLICATIONS
Office: SC 220
Telephone: 801-863-6498

Student Media and Publications is UVU’s home of The UVU Review, the independent student newspaper. This is the place students interested in producing news; including 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 SC220. You can call Brent Sumner, Media Coordinator 801-863-6498 for additional information.

STUDENT SUCCESS/UV MENTOR PROGRAM
Director: Stacy Waddoups, M.Ed.
Office: LC 406a
Telephone: 801-863-8273
E-mail: waddoust@uvu.edu

Assistant Director, UV Mentors:
Marinda Ashman, M.Ed.
Office: LC 406b
Telephone: 801-863-7227
E-mail: mashman@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 College Student Success course (CLSS 1000), taught through the Department of College Success Studies, is the recommended starting point for first-year students. The objectives of the College 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 College 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 CLSS 1000 class, who then enroll in the Leadership Mentoring I class (CLSS 2200), and then were selected to serve as peer mentors. UV Mentors are awarded tuition waivers for their service.

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
801-863-8269, WS 101

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.

New students must meet one of following assessment requirements:

1. ACT/SAT Scores
   English: Not older than 3 years.
   Math: Not older than 2 years.

2. New Student Assessment
   Required for UVU students for assessment purposes. Administered in the Assessment Center. There are 3 sections: reading, writing, and math. Fees may apply. For more details and information, call the Testing Services department at (801) 863-8269 or visit our web pages: http://www.uvu.edu/testing/services/.

3. Transfer Credit
   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).

   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 Ability to Benefit, GED, CLEP, SAT, ACT, EMT and POST tests. Pre-enrollment English proficiency assessment for foreign 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.

Technical assistance is also provided in the interpretation and use of tests. 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: http://www.uvu.edu/testing/services/.

Classroom Testing Center
801-863-7461, WS 112

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 UVlink, click on Student tab and under Student Registration & Information Services click on CTC Student Exam Scores and Schedules. Students can also call 863-7461 or visit the Testing Services home page on the web at http://www.uvu.edu/testing/services/.

Proctored Exam Center (PEC)
801-863-8544, WS 111

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 and Upward Bound

Talent Search
Maraia Weingarten Ph.D, Director
Telephone: 801-863-8076
E-mail: weingam@uvu.edu

Michael Campbell J.D., Coordinator
Telephone: 801-863-8569

Kasha Farmer, Administrative Assistant.
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
Maraia Weingarten Ph.D, Director
Telephone: 801-863-8076
E-mail: weingarten@uvu.edu

Victor Narsimulu M.O.B, Coordinator
Telephone: 801-863-8570

Rebecca Ayala, Administrative Assistant
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
3. 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 pursue successfully 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: MT 116
Telephone: 801-863-7580
Website: www.uvu.edu/turiningpoint

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.

UVU INSTANT INFO/
ONE STOP CALL CENTER

Desks and Computer Kiosks Located at:
  Administration Building BA100A
  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), 801-863-7439
E-mail: instantinfo@uvu.edu - Answer within 24 hours

Instant Info provides comprehensive assistance to new, continuing, and transferring students as well as parents, staff, faculty, and the general public regarding all aspects of student services. Trained peer advisors field all walk-in or inquiries made by telephone and assist patrons in resolving issues. Should a referral be required, patrons are directed to an individual/department or contact information is provided. Instant Info personnel are trained to assist patrons with the following:

- Electronic admissions applications - immediate response
- 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
- On-line 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 on-line assignments - Blackboard Vista
- Class schedules and catalogs
- Campus activities and events
- On-line parking services assistance
- Locations and directions
- PIN numbers/change of address
- Answer questions via e-mail

One Stop Call Center provides comprehensive assistance by:
- Answering all incoming Student Service calls
- Assisting with adding and dropping classes, and checking financial aid
Assisting callers with all other on-line services

VETERANS’ SERVICE OFFICE
Office: BA 114
Telephone: 801-863-8212
E-mail: veterans@uvu.edu
Website: www.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.

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.

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-2364 (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 http://www.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 and 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.

THE VOLUNTEER AND SERVICE-LEARNING CENTER

Office: LC 205
Telephone: 801-863-8786

The Volunteer and Service-Learning Center is dedicated to providing service and service-learning opportunities for the students, faculty, and staff of UVU. 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 community outreach, classroom-based service-learning, service expeditions and leadership development programs. Students, faculty, and staff are encouraged to get involved.

WOMEN’S RESOURCE CENTER

Coordinator: Peggy Pasin
Office: LC 405k
Telephone: 801-863-8080

The Women’s Resource Center, part of Student Services, provides academic and personal support to students seeking a UVU education. An on-site coordinator provides a connection, advocacy, mentoring, scholarship information, tutoring information and community referrals to those needing help.

WRITING CENTER

Coordinator: Leigh Ann Copas
Office: LJ 208
Telephone: 801-863-8936
Online: http://www.uvu.edu/owl

See Tutoring and Academic Skills Services (TASS) in this section.

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.

ALCOHOL, TOBACCO AND 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 A-7.2)

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 A-7.1)

All students can access a copy of the University Drug Policy in class schedules each semester. It is explained therein what the policy is and legal 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 disciplinary 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 with written permission of the student. Similarly, data will be furnished to university accrediting bodies and governmental officials with 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 people 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. Degrees conferred, dates, major field of concentration and honors received

Students may request, at any time, through the Admissions and Records 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 Human Resources Services/University Equity Officer.

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/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 Office of Judicial Affairs 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.
   c. 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/University Equity Officer.

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 charges, 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.

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

5. 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.

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

7. 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 Office of Judicial Affairs
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. Sorensen Student Center Scheduling Office, SC 103, 801-863-8612
2. Events Center Scheduling, MC Concourse, 801-863-8767
3. All other Campus Scheduling, Planning Center, 801-863-8883

Amplification for the Sorensen Student Center and outdoor areas can occur between 11:00 a.m. and 1:00 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.
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 and various locations on campus. When activated these phones will automatically put you in direct contact with a University police dispatcher.

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 Marshall 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.

Traffic School
Utah Valley University police offer traffic school for persons cited for moving violations. Attendance will give licensed drivers an opportunity to improve their knowledge and keep a clean driving record. Upon completion of the class the citation will be dismissed and will not appear on your driving record with the Utah Driver’s License Division. Traffic school is allowed for one citation per calendar year. Court approval is required before a person can sign up for traffic school.

GROUNDS AND 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 http://bci.utah.gov/Stats/StatsHome.html.

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


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, ROLLER SKATES, BICYCLES, AND MOTORCYCLES
Skateboards, roller blades, 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: American 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.
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
- Philosophy
- Political Science
- American Government
- World Politics
- Political Philosophy/Public Law
- Spanish
- Integrated Studies
- American Sign Language
- Anthropology
- Art History
Communication  
English  
French  
German  
Graphic Design  
History  
Humanities  
Philosophy  
Photography  
Social Sciences  
Sociology  
Spanish  

Secondary Education  
ASL and Deaf Studies  
English  
History  
Spanish  

Bachelor of Social Work  

Associate in Arts/Science  
Behavioral Science  
Communication  
English  
English: Technical Communication Specialization  
History and Political Science  
Humanities  
Philosophy  

Minor  
English Creative Writing  
English Education  
English Literary Studies  
French  
History  
Humanities  
Languages  
Philosophy  
Political Science  
Spanish  
Technical Communication  

Other  
Technical Communication Certification  

DEPARTMENTS  

Department of Behavioral Science  
Chair: Steven Clark  
Office: LA 012  
Telephone: 801-863-8082, 801-863-6211  
Academic Advising Appointments: 801-863-6377  

The mission of the Behavioral Science Department is to prepare students for careers in the fields of psychology, sociology, social work, anthropology, family studies 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 and 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.  

Department of Communication  
Chair: David W. Scott  
Office: LC 239  
Telephone: 801-863-6884  

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 B.A. or B.S. 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.  

Department of English and Literature  
Chair: Robert Cousins  
Office: LA 126e  
Telephone: 801-863-8571  

Assistant Chair: Christa Albrecht-Crane  
Office: LA 126f  
Telephone: 801-863-6286  

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.  

Department of History and Political Science  
Chair: Kathren Brown  
Office: LA 030e  
Telephone: 801-863-8477  

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.
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 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.

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

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 Spanish and Spanish Education degrees, the Integrated Studies degree (emphasis in Spanish, French, or ASL), the Deaf Studies minor, and the Spanish minor. 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.
College of Science & Health

DEAN: Sam Rushforth
Office: PS 201a
Telephone: 801-863-8980
E-mail: sam.rushforth@uvu.edu

Assistant to Dean: Kerri Howlett
Office: PS 201b
Telephone: 801-863-8980
E-mail: KHowlett@uvu.edu

Associate Dean: Dan Fairbanks
Office: PS 201e
Telephone: 801-863-6440
E-mail: Daniel.Fairbanks@uvu.edu

Assistant Dean: Louise Illes
Office: PS 201d
Telephone: 801-863-6040
E-mail: illeslo@uvu.edu

Assistant Dean: Danny Horns
Office: PS 201c
Telephone: 801-863-8582
E-mail: hornsda@uvu.edu

Administrative Assistant: Cathy Marshall
Office: PS 201
Telephone: 801-863-6441
E-mail: marshaca@uvu.edu

Advisory Council: Greg Craner, Chair; Carl Black; Bill Evenson; Eric W. Gardner; Tracy Hall; Michael Jacobs; Jeffery Taylor; John Unice; Carol Walker; Scott Woodward

The faculty of the College of Science and Health is committed to:

1. Developing courses and programs which will provide students with the knowledge to succeed in their chosen profession.

2. Delivering high quality courses and programs using teaching methodologies which stimulate learning.

3. Maintaining and improving faculty expertise in specific disciplines and education/pedagogy.

4. Identifying and advising students who are "at risk."

5. Using classroom assessments to determine student progress and course/program evaluation.

6. Providing students with a clear explanation of course prerequisites and requirements for successful completion of programs.
College of Science & Health

DEGREES OFFERED

Master of Science
- Nursing

Bachelor of Science
- Biology
- Biology Education
- Biotechnology
- Botany
- Chemistry
  - Forensic Chemistry
  - Professional Chemistry
- Community Health
  - Community Health Education
  - Health Services Administration
- Composite Chemistry/Physics Education
- Dental Hygiene
  - Business
  - Education
  - Integrative Practice
  - Public Health
- Earth Science
  - Environmental Management
  - Geology
- Earth Science Education
- Mathematics
  - Actuarial Science
  - Pure Mathematics
- Mathematics Education
- Nursing
- Physical Education and Recreation
  - Exercise Science
  - Outdoor Recreation Management
- Physical Education Teacher Education
- Physics
- School Health Education

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

Associate in Applied Science
- Dental Hygiene

Minors
- Biology
- Chemistry
- Community Health Education
- Earth Science
- Mathematics
- Outdoor Recreation
- Physical Education
- Physics
- School Health Education

Certificate
- Water and Wastewater Operations

DEPARTMENTS

Department of Biology
- Administrative Assistant: Alana Korstanje
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  - Telephone: 801-863-8511
  - E-mail: korstaal@uvu.edu
- Chair: Mark Bracken
  - Office: PS 230
  - Telephone: 801-863-8739
  - E-mail: Mark.Bracken@uvu.edu
- Advisor: Kimberly Sulz
  - Office: PS 202f
  - Telephone: 801-863-6208
  - E-mail: sulzki@uvu.edu
- Advisor, Secondary Education: Richard Tolman
  - Office: PS 224
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  - E-mail: tolmanri@uvu.edu
- Advisor, Pre-Health Professions: Jennifer Orchard
  - Office: LC 404a
  - Telephone: 801-863-7207
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- Advisor, Biotechnology: Thayne Dickey
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  - Office: PS Reception
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- Chair: Bruce Wilson
  - Office: PS 212f
  - Telephone: 801-863-7138
  - E-mail: Bruce.Wilson@uvu.edu
- Advisor: Tom Liljegren
  - Office: PS 202d
  - Telephone: 801-863-8616
  - E-mail: Tliljegren@uvu.edu

Department of Dental Hygiene
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  - Telephone: 801-863-7536
  - E-mail: henderjo@uvu.edu
- Chair: George Veit
  - Office: MT 142d
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Chair: Michael Bunds
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Advisor, Environmental Management: Jim Callison

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Administrative Assistant: Diane Evans
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Department Chair: Suzette Farmer
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Advisor: Lynnae Marsing
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Department of Physics
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Chair: Brent Bargeron
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Advisor: Tom Liljegren
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Department of Public and Community Health
Administrative Assistant: Kristie Dockstader
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Chair: Robert O. Walsh
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Advisor: Rebecca Brimhall
Office: PE 151d
Telephone: 801-863-6579
E-mail: Rebecca.Brimhall@uvu.edu
DEAN: ERNEST CAREY
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Assistant Dean for Advancement: David Mortensen
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Associate Dean /School of Applied Technology & Construction: TBD
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Telephone: 801-863-8165
E-mail: TBD

Associate Dean/School of Computing: Abraham Teng
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Telephone: 801-863-6201
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E-mail: GSchwab@uvu.edu

Associate Dean/School of Public Services: Jeff Maxfield
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Telephone: 801-863-7736 or 1-888-548-7816
E-mail: JMaxfield@uvu.edu

Communication Specialist: Jim McCulloch
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Advisement Center
Advisement Center for College of Technology and Computing
Administrative Assistant II, Melissa Tippins
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» Administrative Information Management  
» Business/Marketing Secondary Education  
» Digital Media

Advisor: Bobbi Kassel  
Office: CS 635  
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» Criminal Justice  
» Forensic Science

Advisor: Patti Miner  
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E-mail: minerpa@uvu.edu  
» Computing Science  
» Information Systems and Technology

Advisor: Fred Orchard  
Office: CS 635  
Telephone: 801-863-6238  
E-mail: orchardf@uvu.edu  
» School Internship and Cooperative Education Manager  
» Computer Sciences  
» Pre-Engineering

Advisor: Amy Ostler  
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» Building Construction and Construction Management  
» Building Inspection Technology  
» Cabinetry and Architectural Woodwork  
» Facilities Management

Advisor: Carrie Peterson  
Office: CS 635  
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E-mail: petersonca@uvu.edu  
» Automotive Technology  
» Collision Repair Technology  
» Diesel Mechanics Technology  
» Technology Management

Advisor: Joyce Porter  
Office: CS 635  
Telephone: 801-863-7125  
E-mail: Joyce.Porter@uvu.edu  
» Administrative Information Management  
» Digital Media

Advisor: Jessie Stewart  
Office: CS 635  
Telephone: 801-863-6597  
E-mail: Jessie.Stewart@uvu.edu  
» Engineering Graphics and Design Technology  
» Electrical Automation and Robotics Technology  
» Geomatics  
» Mechatronics Technology

Institute for Emergency Services and Homeland Security  
Telephone: 801-863-7700

The Institute for Emergency Services and Homeland Security focuses on Fire and Emergency Services personnel development, Homeland Security education and training, and Emergency Services management education and training. 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.

DEGREES OFFERED

Bachelor of Science  
Aviation Science  
Aviation Administration  
Professional Pilot  
Business/Marketing Education  
Computer Science  
Computer Engineering  
Computer Networking  
Computer Science  
Database Engineering  
Construction Management  
Criminal Justice  
Criminal Justice with an option in:  
Corrections  
Criminal Law  
Law Enforcement  
Digital Media  
Audio Production  
Cinema Production  
Gaming and Animation  
Internet Tech  
Project and Information Management  
Emergency Services Administration  
Emergency Care  
Emergency Management  
Forensic Science  
Information Systems  
Business Intelligence Systems  
Geographic Information Systems  
Health Information Systems  
Information Technology  
Computer Forensics and Security  
Network Administration and Security  
Software Engineering  
Technology Management  
Technical specialties: (See Advisor for Applicable AAS Degree)

Associate in Science/Arts  
Administrative Information Management  
Automotive Technology  
Aviation Science  
Engineering Graphics and Design Technology  
Electrical Automation and Robotics Technology  
Geomatics  
Mechatronics Technology
College of Technology & Computing

Electrical Automation and Robotics Technology
Emergency Services
Information Systems and Technology
Pre-Engineering

Associate in Applied Science
Administrative Information Support
Automotive Technology
Aviation Science
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
Emergency Services
Fire Officer
Firefighter/Emergency Care
Facilities Management
Information Systems and Technology
Mechatronics Technology
Technology
Wildland Fire Management

Associate in Pre-engineering
Biological and Chemical Engineering
Civil and Mechanical Engineering
Computer and Electrical Engineering

Minor
Business Education
Basic Business Core
Business Information Technology
Marketing
Business Information Technology
Computer Science
Criminal Justice
Digital Media
Forensic Science
Information Systems and Technology
Technology Management

Diploma
Automotive Technology
Cabinetry and Architectural Woodwork
Collision Repair Technology
Collision Repair
Street Rod
Diesel Mechanics Technology

One-Year Certificate
Administrative Support (Receptionist)
Automotive Technology
Building Inspection Technology
Cabinetry and Architectural Woodwork

Collision Repair Technology
Diesel Mechanics Technology
Firefighter Recruit Candidate
Network Administration
Paramedic
Programmer

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

Automotive Technology
Chair: Don Wilson
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E-mail: wilsondo@uvu.edu

Administrative Assistant III: Katreena Davis
Office: SA 306
Telephone: 801-863-7022
E-mail: daviska@uvu.edu

Aviation Science
Assistant Dean: Greg Schwab
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E-mail: GSchwab@uvu.edu

Administrative Assistant III: Gloria Schneider
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E-mail: schneigl@uvu.edu

Chair: TBD
Office: Provo Municipal Airport
Telephone: TBD
E-mail: TBD

Administrative Assistant III: Claire Downing
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Building Inspection Technology
Chair: Barry Hallsted
Office: GT 601
Telephone: 801-863-8135
E-mail: hallstba@uvu.edu

Administrative Assistant III: Sandra Ozuna
Office: GT 613
Telephone: 801-863-7405
E-mail: ozunasa@uvu.edu

Cabinetry and Architectural Woodwork
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Collision Repair Technology
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Telephone: 801-863-8124
E-mail: wilsondo@uvu.edu
Administrative Assistant III: Katreena Davis
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Computer Science and Pre-Engineering
Chair: Kirk Love
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Administrative Assistant III: Vaylene Perry
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Construction Management
Chair: Barry Hallsted
Office: GT 601
Telephone: 801-863-8137
E-mail: hallstba@uvu.edu
Administrative Assistant III: Sandra Ozuna
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Telephone: 801-863-7405
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Criminal Justice/Law Enforcement
Chair: Curtis Fillmore
Office: GT 606c
Telephone: 801-863-8857
E-mail: Curtis.Fillmore@uvu.edu
Director Police Academy: Steve DeMille
Office: GT 606b
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Administrative Assistant III: Leann Larsen
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Culinary Arts Institute
Department Chair: Peter Sproul
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Diesel Mechanics Technology
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Digital Media
Chair: Jan Bentley
Office: CS 526g
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E-mail: jan.bentley@uvu.edu
Administrative Assistant III: Celena Patten
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Electrical Automation and Robotics Technology
Chair: Darin Taylor
Office: CS 704g
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Administrative Assistant III: Christine Bigelow
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Emergency Services/Utah Fire and Rescue Academy
Director: Jeff Maxfield
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Chair: Gary Noll
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Administrative Assistant III: Susie King
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Engineering Graphics and Design Technology
Chair: Darin Taylor
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Facilities Management
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Information Systems and Technology
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Technology Management
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Telephone: 801-863-8095

Dean’s Assistant: Wendi Hillman
Office: ME 117d
Telephone: 801-863-6543

Office Manager: Wendy Fletcher
Office: ME 117
Telephone: 801-863-8146

DEGREES OFFERED

Master of Education

Bachelor of Science
Elementary 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

Associate of Arts/Science
Early Childhood Education
Pre-Elementary Education

Certificate
Early Care and Education
DEPARTMENTS

Department of Elementary Education
Department Chair: Stan Harward
Office: ME 116d
Telephone: 801-863-6571

Administrative Assistant: Connie Wright
Office: ME 116
Telephone: 801-863-8228

Field Coordinator: Richard Allred
Office: ME 131
Telephone: 801-863-6580

Administrative Support Advisement Center: Eva Sanchez
Office: ME 114
Telephone: 801-863-8478

Advisor: Leslie Hudson
Office: ME 114f
Telephone: 801-863-8478

Advisor: Shaunna Requilman
Office: ME 114d
Telephone: 801-863-8478

Advisor: Kaitlyn Andreason
Office: ME 114a
Telephone: 801-863-8478

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

Department of Secondary Education
Department Chair: Talitha Hudgins
Office: ME 116b
Telephone: 801-863-6573

Administrative Assistant: Connie Wright
Office: ME 116
Telephone: 801-863-8228

Field Coordinator: John Burton
Office: ME 131
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
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SCHOOL OF THE ARTS

DEAN: K. NEWELL DAYLEY
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Associate Dean for Academics: Steven Bule
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DEGREES OFFERED

Bachelor of Fine Arts
Art and Visual Communications
Graphic Design
Illustration
Painting/Drawing
Photography
Sculpture/Ceramics
Dance
Ballet Emphasis
Modern Dance Emphasis

Bachelor of Arts/Science
Art and Visual Communications
Art Education
Dance
Ballroom Dance Emphasis
Dance Education
Music
Secondary Education
Music
Theatre Arts
Theatre Arts
Design and Technology
Performance

Integrated Studies
Ballet Emphasis
Ballroom Emphasis
Modern Dance Emphasis

Associate in Arts/Science
Art and Visual Communications
Dance
School of the Arts

Music
Theatre Arts

Associate in Applied Science
Art and Visual Communications
Design/Illustration
Graphic Design
Photography

Minor
Music
Theatre Arts

Certificate
Art and Visual Communications

DEPARTMENTS

Department of Art and Visual Communications
Chair: Jim Godfrey
Office: GT 535a
Telephone: 801-863-6190

The Department of Art and Visual Communications prepares students for careers in art education, fine arts and the applied arts. 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 and 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 communication and are open to all. They provide sound training for careers in art related fields. The Bachelor of Science in Art Education helps prepare students to teach in K-12 schools. Many of our 1000 level courses also fulfill general education requirements.

Department of Dance
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.

Department of Music
Chair: Donna Fairbanks
Office: GT 332
Telephone: 801-863-6480

As a vital part of a public university committed to engagement and student success, the Department of Music is committed to generate and sustain an inspiring forum of musical creativity that fosters excellence and enhances understanding and appreciation for the musical arts on campus and in the community. Our mission is to:

1. Offer the highest level of education in music for students pursuing undergraduate programs in music education, liberal arts in music, and integrated studies with a music emphasis.
2. Provide general music studies and performance opportunities to all students on campus.
3. Foster an open and inclusive environment that engages traditional and non-traditional students, celebrates differences, and promotes understanding and appreciation of a variety of past and present musical styles and cultures.
4. Provide a supportive and stimulating environment within the Department that allows music faculty to explore new and exciting avenues of creativity and achieve the highest professional potential.
5. Provide artistic leadership in the university and offer performances and events that enrich and promote cultural depth to the campus and community.

Department of Theatrical Arts for Stage and Screen
Chair: James Arrington
Office: FA 705
Telephone: 801-863-8105

The Department of Theatrical Arts for Stage and Screen offers programs of study leading to the Associate in Science degree and to three baccalaureate degrees – Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Theatre Arts Education. 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.

Woodbury Art Museum
Interim 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 exists out of the generosity of Orrin and Wally Woodbury. Their gracious donation of funds sought to create an art museum on the campus of Utah Valley University. Within a short time it became evident that the critical shortage of space on campus would not permit the formation of the art museum. Thus, as owners of the Woodbury Corporation, they made available the upper floor of the former JC Penney’s store at the University Mall when it underwent significant remodeling and expansion. The Museum is approximately one mile from the main campus on the same major arterial.

School of the Arts Advisory Board

Chair: Boyd Craig, Jeanette Clyde (Past Chair)

Contact via Barbara Hammond 801-863-6246, hammondba@uvu.edu

The Advisory Board of the School of the Arts is an active partner in defining the vision and accomplishing the goals of the School. Chosen for their demonstrated leadership and accomplishments in the arts, business and/or community service, Board members provide valuable counsel and assistance in the areas of creative and scholarly activity, development, fund raising, and increasing awareness among stake-holders and the community. Success in these focus areas contributes significantly to the dynamic environment of Utah Valley University.
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, College Success Studies, Developmental Mathematics, English as a Second Language, Tutoring and Academic Skills Services (TASS) promote interdisciplinary partnerships as students transition into university academics.

INTERIM DEAN: K.D. TAYLOR
Office: LA 210c
Telephone: 801-863-8949
Fax: 801-863-7060
E-mail: taylorkd@uvu.edu

Associate Dean: Maureen Andrade
Office: LA 210e
Telephone: 801-863-6832
E-mail: maureen.andrade@uvu.edu

Assistant Dean: Shane Rager
Office: LA 210d
Telephone: 801-863-6766
E-mail: shane.rager@uvu.edu

Administrative Assistant: Luisa Rogers
Office: LA 210
Telephone: 801-863-6712
E-mail: rogerslu@uvu.edu

DEGREES OFFERED

Associate in Arts
University Studies

Associate in Science
University Studies

DEPARTMENTS
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/ENGLISH AS A SECOND LANGUAGE
Department Chair: Deborah Marrott
Office: LA 234e
Telephone: 801-863-8823
E-mail: marrotde@uvu.edu

ESL Program Director: Jim Pettersson
Office: LA 234f
Telephone: 801-863-8721
E-mail: petterji@uvu.edu

Administrative Assistant: Elizabeth Nield
Office: LA 234g
Telephone: 801-863-6865
E-mail: elizabethn@uvu.edu
DEVELOPMENTAL MATHEMATICS

Advisor: Lisa Williamson
Office: LA 234a
Telephone: 801-863-8729
E-mail: lisa.williamson@uvu.edu

The Basic Composition/ESL 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 both the Basic Composition and ESL programs emphasize helping students to think critically, comprehend and respond to written texts, analyze and synthesize texts, organize ideas, use logic and support to present oral or written arguments and learn the conventions of academic English. The Basic Composition/ESL 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, computerized and on-line instruction, collaborative learning activities, peer and instructor tutorials, and individualized instruction to meet student needs.

COLLEGE SUCCESS STUDIES
Department Chair: Chris Goslin
Office: LC407g
Telephone: 801-863-6558
E-Mail: cgoslin@uvu.edu

Director, Student Success/UV Mentor Program: Stacy Waddoups
Office: LC 406a
Telephone: 801-863-8273
E-mail: waddoust@uvu.edu

Assistant Director, UV Mentor Program: Marinda Ashman
Office: LC 406b
Telephone: 801-863-8273
E-mail: mashman@uvu.edu

Interim Administrative Assistant: Cyndi Schumacher
Office: LC 407a
Telephone: 801-863-7227
E-mail: Cyndi.Schumacher@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.

DEVELOPMENTAL MATHEMATICS
Department Chair: Max Aeschbacher
Office: LA 217b
Telephone: 801-863-7217
E-mail: maxa@uvu.edu

Assistant Chair: Laurel Howard
Office: LA 217c
Telephone: 801-863-6311
E-mail: howardla@uvu.edu

Evening Coordinator: Evelyn Porter
Office: LA209j
Telephone: 801-863-6836
E-mail: porterev@uvu.edu

Administrative Assistant: Sharon Larson
Office: LA217n
Telephone: 801-863-6570
E-mail: sharon.larson@uvu.edu

Advisor: Robert Williams
Office: LA221a
Telephone: 801-863-6726
E-mail: robert.williams@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 AS A SECOND LANGUAGE
Program Director: Jim Pettersson
Office: LA 234f
Telephone: 801-863-8721
E-mail: petterji@uvu.edu

Department Chair: Deborah Marrott
Office: LA 234e
Telephone: 801-863-8823
E-mail: marrotde@uvu.edu

The mission of the UVU English as a Second Language program is to help non-native English-speaking students understand and successfully use academic English at an American university. To accomplish this goal, our faculty and coursework provide a broad range of excellent academic and social opportunities. These opportunities help students develop and show proficiency in the skills of 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 ESL Program exit criteria are admitted into the university to begin their undergraduate or graduate academic studies.

TUTORING AND 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

Coordinator: Wendy Simmerman
Office: LA 201
Telephone: 801-863-8310
Online: http://www.uvu.edu/academictutoring
E-mail: wendy.simmerman@uvu.edu
Free tutoring assistance for all classes other than math or English is available in the Peer Tutoring Center to all UVU students. Services include a drop-in tutoring lab, one-on-one tutoring by appointment, supplemental instruction, and group study sessions. Solutions manuals for select courses can be checked out for use in the lab, and other materials are available for student use. Live, interactive tutoring is also available for some classes on the Internet through Online Peer Tutoring.

Learning Strategies Support
Manager: Pat Nelson
Office: LC 405q
Telephone: 801-863-7418

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 Compass Exam
- Web Page: http://uvu.edu/learningstrategies/

Math Lab
Drop In Lab: LA 201

Manager: Kathryn Van Wagoner
Office: LA 201
Telephone: 801-863-8310
Online: http://www.uvu.edu/mathlab
E-mail: kathryn.vanwagoner@uvu.edu

The Math Lab provides tutoring, classroom support, and outreach programs which facilitate student success in mathematics. Free drop-in and appointment-based math tutoring is offered in LA 201 and several other satellite locations, including the Calc & Stats Lab. Online tutoring is also available via MathLab Online, a live interactive whiteboard. Classroom-based programs include Structured Learning Assistance and Supplemental Instruction. Outreach programs such as Math Orientation and Math Week engage and inform students.

Writing Center
Drop In Lab: LI 208

Faculty Director: Joshua Hilst
Coordinator: Leigh Ann Copas
Assistant Coordinator: Rebecca Disrud
Office: LI 208
Telephone: 801-863-8936
Online: http://www.uvu.edu/wc
E-mail: copasle@uvu.edu

The Writing Center provides free one-on-one tutoring to all UVU students. Students may bring writing assignments for any class and can either make an appointment or drop in to meet with a tutor. In addition, the Center offers writing workshops, handouts, practice grammar tests, reference books, textbooks, writing manuals, ESL materials, and the On-line Writing Lab (OWL) http://www.uvu.edu/wc.
WOODBURY SCHOOL OF BUSINESS

The Woodbury School of Business aspires to be the premier undergraduate business school in the intermountain states recognized for its up-to-date curriculum, quality faculty, and graduates who continue to learn and achieve in the world of business.

Dean's Office: WB 128
Telephone: 801-863-8260
E-mail: jinemeem@uvu.edu
Fax: 801-863-7314

Dean: Norman S. Wright
Office: WB 128b
Telephone: 801-863-8260
E-mail: Norman.Wright@uvu.edu
Fax: 801-863-7314

Associate Dean: Eugene L. Seeley
Office: WB 219
Telephone: 801-863-8736
E-mail: Eugene.Seeley@uvu.edu
Fax: 801-863-7314

Assistant Dean: Mikki O’Connor
Office: WB 129
Telephone: 801-863-8850
E-mail: oconnomi@uvu.edu
Fax: 801-863-7314

Assistant Dean, Advancement for the School of Business: Randall L. Beckham
Office: WB 138
Telephone: 801-863-8458
E-mail: Randy.Beckham@uvu.edu
Fax: 801-863-7314

Master of Business Administration Director: Tammy Huffman
Office: WB 127b
Telephone: 801-863-6148
E-mail: tammy.huffman@uvu.edu
Fax: 801-863-8367

MBA Coordinator: Lauren Erlacher
Office: WB 127a
Telephone: 801.863-5099
E-mail: laurenm@uvu.edu
Fax: 801-863-8890

Advisory Council
Steve Beck, Principal, COBE Real Estate Development; Sue Bingham, Director, Les Olson Company; John Blatter, Goldman Sachs (retired); Dan Hall, Dan Hall and Associates, P.C.; Bryant Folger, Principal, Foulger Pratt Companies; Martin Frey, Partner, Connect Advisors, LLC; Reed Halladay, Managing Director, Bel Air Investment Advisors; Dan Howells, Polynesian Cultural Center; Neall Humphrey, President & CEO, Creative Concepts Group; Bill Johnson, Senior Vice President, Morgan Stanley; Jeffrey Kahn, President & Partner, RJR Investment Services, LLC and Sales Manager, Southwest Trust Company; Christopher Liechty, VP of Communications, American Fork Bank; Carla Meine, CFO, Ideal Shape; Patrick Milligan, VP (Council Chair), Kraft Foods Global, Inc; N. Dan Reeve, Managing Director, Horsley Bridge Partners; Mark Peterson, VP, Sequoia Media Group; Mark Rogers, General Manager, Global Strategic Alliances, Novell, Inc.; Steve Sessions, President & CEO, Fuller Real Estate; Kevin L. Simister, Partner, Hawkins, Cloward & Simister;
Woodbury School of Business

Jeff Woodbury, Woodbury Corporation.

**Professorships**
Miles and Mary Morris Professor of Entrepreneurship: Peter Robinson Ph.D., Professor of Management
Wally R. Woodbury Professor of Economics: Amir Kia, Ph.D.
Professor of Leadership and Ethics: Associate Professor Susan Madsen, Ed.D.

**Mission Statement**
The Woodbury School of Business provides an education that is built upon:

- Quality instruction and student involvement
- Faculty and student scholarship
- Community outreach and engaged learning
- Integration and application of knowledge
- Social, ethical, cultural, and global understanding

**Vision 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.

**Accreditation**
The Woodbury School of Business received AACSB Accreditation in Fall 2007. 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.

**Advising**
The Woodbury School of Business Advisement Center provides one-on-one advising throughout a student's program. Information regarding scholarships, and transfer programs is readily available by contacting departmental advisors in WB 257 of the Woodbury Business Building. Privately funded scholarships, as well as tuition waivers, are awarded by the Woodbury School of Business. Each student should make an appointment to see a Woodbury School of Business advisor early in his/her first semester on campus.

**Advising**

- Advisor: Diana Johnsen  
  Office: WB 257f  
  Telephone: 801-863-8832  
  E-mail: johnsedi@uvu.edu

- Advisor: Terry Acord  
  Office: WB 132a  
  Telephone: 801-863-8314  
  E-mail: acorde@uvu.edu

- Advisor: Mignon Nicol  
  Office: WB 257g  
  Telephone: 801-863-8749  
  E-mail: nicolmi@uvu.edu

- Advisor: Polly Clauson  
  Office: WB 257b  
  Telephone: 801-863-6482  
  E-mail: clausopa@uvu.edu

- Advisor: Shalece Nuttall  
  Office: WB 257a  
  Telephone: 863-8807  
  E-mail: nuttalsh@uvu.edu

- Advisor: Kim Wright  
  Office: WB 257d  
  Telephone: 863-6890  
  E-mail: wrightki@uvu.edu

- Advisor: Brittany Naef  
  Office: WB 257c  
  Telephone: 863-6889  
  E-mail: naefbr@uvu.edu

- Advisor: Clint Martinez  
  Office: WB 257e  
  Telephone: 863-6375  
  E-mail: Martinici@uvu.edu

**Internships**
The Woodbury School of Business encourages students to enroll in internship courses once they have advanced standing. Completing between two 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 college, 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. It is recommended that students complete MGMT 3990 Career Preparation before registering for internship credit.

A coordinator works closely with students and employers to ensure that the internship is a successful career education experience. The Woodbury School of Business managers of career and corporate development are:

- Peggy Williams  
  Office: WB 239  
  Telephone: 801-863-8379  
  E-mail: Peggy.Williams@uvu.edu

- John Wilson  
  Office: WB 237  
  Telephone: 801-863-6307  
  E-mail: wilsonjo@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 15 credits of upper-division courses can be taken before a student has been formally matriculated into the UVU Woodbury School of Business with advanced standing.

**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 second 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.

**Application Requirements for Advanced Standing (Matriculation)**
To be considered for admission to advanced standing 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; Paralegal 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.
• 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 to advanced standing (matriculation) through the Woodbury School of Business advisor by completing the appropriate form.

• The student will be required to complete the program that is in effect at the time advanced standing (matriculation) is granted. Exceptions will be handled on a case-by-case basis

Major Specialization of Courses
After admittance to advanced standing, the student will be required to complete the courses required 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 Advanced Standing
Once admitted to advanced standing in the Woodbury School of Business, 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, advanced standing 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 of advanced standing.

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 second retake ("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) college work. The bachelor degree consists of 120-126 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 in Woodbury School of Business courses taken at UVU; 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 accepted into advanced standing for a 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 experiential/challenge credit for a specific course. Students may not challenge a class for which they are or have been enrolled. No more than 16 credit hours of challenge credit 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 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.

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.

DEGREE OFFERINGS
The Woodbury School of Business offers courses leading to the following degrees.

Bachelor of Arts
Economics
Finance
Marketing

Bachelor of Science (BS)
Accounting
Business Management with a specialization in:
Entrepreneurship
General Business
Hospitality Management
International Business
Economics
Finance
Hospitality Management
Legal Studies
Marketing

Minors
Accounting
Business Management
Economics
Finance
Legal Studies
Marketing
Associate in Science (AS)
  Accounting
  Business Management
  Hospitality Management
  Legal Studies

Woodbury School of Business—transfer degree

Associate in Applied Science (AAS)
  Accounting
  Business Management
  Hospitality Management

Certificate
  Accounting
  Business Management
  Legal Studies

Master of Business Administration Degree
(For more details, refer to page 81.)

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 accepted into advanced standing. 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.

Associate in Business

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 Woodbury 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).

Footnotes:
  * 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.

DEPARTMENTS

Accounting
Chair: Steven Johnson
Office: WB 136b
Telephone: 801-863-7186
E-mail: johnsosd@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 and Economics
Chair: Lowell M. Glenn
Office: WB 215
Telephone: 801-863-8385
E-mail: 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.

Experienced faculty work with students in the development theory and learning to apply the principles of finance management, economics, statistics, and operations management critical to their professional development. Finally, students are taught to integrate these disciplines within a strategic management curriculum during the final semester as they prepare to move into the professional business environment.

Economics training provides an excellent preparation for graduate work in law, business, or other professions.
Hospitality Management

Director: D. Craig Huish
Office: WB 203b
Telephone: 801-863-8728
E-mail: huishcr@uvsc.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 with a track in Hotel/Restaurant Management. The demand for management staff in this industry is tremendous particularly for those with specialized hospitality management skills.

Legal Studies

Contact: Aaron Bartholomew
Office: WB 244
Telephone: 801-863-6504
E-mail: aaronba@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

Chair: David McArthur
Office: WB 243
Telephone: 801-863-7183
E-mail: 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, finance and banking, hospitality management, international business, marketing, 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

Chair: Paul Dishman
Office: WB 203e

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.
About Distance Education

UVU Distance Education extends the reach of the physical campus to offer courses, degrees, and related services that help meet students’ evolving education needs.

Through a variety of instructional technologies and delivery modes, Distance Education makes courses available beyond what the campus physical facilities can support, affording students the flexibility they want with the quality of education they deserve. By integrating new media and methods across the curriculum, DE encourages and supports an innovative approach to instruction in its Online, Live Interactive and Broadcast courses. In partnership with UVU’s academic units, Distance Education provides a conduit for the delivery of a purposeful, technology-enhanced curriculum that will allow UVU students to engage virtually anywhere.

Course Delivery Modes

UVU Distance Education courses are offered in three delivery modes:

Live Interactive Courses

These courses originate from the UVU campus and are transmitted live to other sites throughout the region. Engage in a live lecture by UVU professors; ask questions and contribute to discussions. Faculty, tutors and support personnel are available online to guide and assist you throughout the semester. Assignments, quizzes and exams are submitted remotely. You don’t have to travel to UVU - your education will come to you.

Online Courses

Accommodate your busy schedule and get to your core classes more quickly by utilizing online courses. Instruction usually includes online interaction with your professor and classmates, as well as associated resource materials. These courses typically feature a variety of media to enhance your learning experience. Course specialists are available to answer questions about your class and provide technical support.

Broadcast Courses

Broadcast courses provide online course content through pre-recorded audio and video lectures. Download free podcasts and watch weekly episodes, all at a time and place that is best for you. Assignments and papers are submitted online according to semester deadlines; quizzes and exams can be taken online or at approved testing facilities. Enjoy your broadcast course at your own pace, reviewing as often as you like, wherever you want.

Degrees at a Distance

Credits from Distance Education courses may be applied toward degrees at UVU, and the following degree programs may be earned in their entirety through Distance Education:

Associate of Science (AS)

1. General Education - 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 of 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 http://uvu.
edu/aviation for more information
2. Emergency Services Administration - A regionally accredited degree
   designed to give the working professional the skills needed to advance
   their career and increase knowledge in critical areas in today’s complex
   emergency environment.
3. Technology Management - Prepares graduates to lead and manage
   technology-intensive organizations or to continue their education at
   the post-graduate level. The degree focuses heavily on technology
   development, leadership, and management skills needed for globally
   competitive organizations.

Getting Started

To view a list of all Distance Education courses, visit: www.uvu.edu/disted.

Questions? Call our Support Services Center at 801-863-8255, or email
dehelp@uvu.edu.

EXTENDED STUDIES

Director: Robert G. Burns
Office: EE 102
Telephone: 801-863-8088
E-mail: burnrsro@uvu.edu

Office: EE 125
Telephone: 801-863-8449
E-mail: extend@uvu.edu
Website: www.uvu.edu/extend

On Campus Manager: Joy Brown
Telephone: 801-863-8432
E-mail: brownjy@uvu.edu

Off Campus Manager: Ruth Gowans
Telephone: 801-863-6216
E-mail: gowansru@uvu.edu

The Office of Extended Studies directs, coordinates and enhances academic
educational opportunities for students at non-traditional times and at various
locations off the main campus. Current program areas:

• Weekend College
• UVU North @ Lehi
• UVU North @ Lehi Jr. High School
• UVU North @ Lehi Jr. High School
• UVU South @ Spanish Fork
• UVU West @ National Guard Building
• Wasatch Campus

Extended Education 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
Telephone: 801-863-8432
E-mail: brownjy@uvu.edu

Over 2500 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 Session, 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
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
• Behavioral Science (Psychology and Sociology)
• Business Management
• Geomatics
• History
• Information Technology
• Paralegal Studies
• Political Science
• Public and Community Health
• University Studies

UVU North @ Lehi

Coordinator: Amie Wells
Telephone: 801-863-7036
E-mail: wellsam@uvu.edu

UVU North @ Lehi is located at Lehi Jr. High School (700 East Cedar Road,
Lehi). More than twenty 1000 and 2000 level courses are offered Fall and
Spring semesters allowing students to complete their General Education
requirements. Classes begin after 5:30 p.m. with some classes scheduled
back to back allowing students to take two classes Monday through Thursday
evenings.

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

• University Studies

UVU North @ Westlake

Coordinator: Amie Wells
Telephone: 801-863-7036
E-mail: wellsam@uvu.edu

General Education courses are offered Fall and Spring semesters. Classes
begin after 5:30 p.m. with some classes offered back to back allowing
students to take more than one course per evening. A facilitator is available to

Utah Valley University
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Extended Education

assist faculty and students while classes are in session.

**UVU South @ Spanish Fork**
Coordinator: Amie Wells
Telephone: 801-863-7036
E-mail: wellsam@uvu.edu

Over 500 students are meeting their academic needs by taking classes at UVU South @ Spanish Fork, located at Spanish Fork High School (99 North 300 West, Spanish Fork).

More than twenty-five 1000 and 2000 level courses are offered Fall and Spring semesters at UVU South where students can complete their General Education requirements. Classes begin at 5:30 p.m. with some classes scheduled back to back allowing students to take two classes Monday through Thursday evenings. Courses are also available in the evenings for Block A of Summer Session.

Students taking classes at UVU South @ Spanish Fork 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**
- University Studies

**UVU West @ National Guard Building**
Coordinator: TBA
Telephone: 801-863-7322
E-mail: TBA

UVU West is located west of the UVU Orem Campus across the I-15 Freeway. Both day and evening courses are offered to more than 2000 students at the National Guard Building located at 951 South 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. Dental Hygiene, 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.

Fifty-five or more courses are offered for Fall and Spring semesters to students who need to complete their General Education requirements. Classes begin at 5:30 p.m. with some classes scheduled back to back allowing students to take two classes Monday through Thursday evenings. Courses are also available in the evenings for Block A of Summer Session.

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.

**Academic Programs and Degrees**
- Dental Hygiene
- Nursing
- Public and Community Health
- University Studies

**Wasatch Campus**
3111 North College Way
Highway 40
Heber City, Utah 84032
Telephone: 435-654-6482 or 801-863-6601
Website: www.uvu.edu/wasatch

Campus Administrator: Thomas Melville
Telephone: 801-863-6648
E-mail: Thomas.Melville@uvu.edu

Assistant: Michael Walker
E-mail: 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, excellent faculty and staff who are committed to individual academic support and attention.

More than 65 courses are offered to over 400 students who attend Wasatch Campus during Fall and Spring Semesters. Block A and Block B courses are also offered at Wasatch Campus during Summer semester. Wasatch Campus staff is available to assist instructors and students while classes are in session.

**Academic Programs and Degrees**
- Behavioral Science - Psychology
- Business Management
- Elementary Education
- University Studies (General Studies)

**Student Services**
- Academic Advisement
- Admissions, Registration and Cashiering Services
- Bookstore
- Career Counseling and Assessment
- Cafeteria
- Library
- Student Life Activities
- Testing and Assessment Services

**Community Education**
Courses and programs to provide lifelong education opportunities for residents of our service region are also offered at the Wasatch Campus. Individuals participate in these programs to advance their careers and to engage in personal and intellectual development. Some programs provide continuing education credit required for professional licensure.

**CONCURRENT ENROLLMENT**
Office: EE 207
Telephone: (801) 863-8376
E-mail: concurrent@uvu.edu
Website: www.uvu.edu/concurrent

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 adjunct faculty who meet the 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 registration fee. Students are held to the same standards of achievement as those expected of students in UVU campus sections.
- 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 application fee, lab and textbook fees, but do not pay tuition costs. 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.
- A facilitator is provided at each high school to facilitate and monitor the broadcast courses, aiding students in the registration process, receiving and submitting assignments, and in proctoring assessment.

On Campus: In addition, many students desire to enroll in college classes on the UVU campus. These students should see their high school counselor for academic advising and registration procedures. They will also be directed to work with a UVU academic advisor.

- Students apply and register for these courses through UVU. Admission, textbook, and lab fees as well as tuition costs must be paid by the student.
- An official UVU transcript is generated and subsequently, the student may choose to submit this to the high school to receive high school credit.

All students participating in the Concurrent Enrollment programs are considered UVU students; therefore, these students are eligible for benefits such as the math, English, and tutoring labs; campus library research and use; UVU ID card, including the All-sport Pass; and access to the gyms, computer labs, and other campus services. For more information about the UVU Concurrent Enrollment program, please contact the Concurrent Enrollment office, 801-863-8376, http://www.uvu.edu/concurrent.
GRADUATE STUDIES

As a regional state university, Utah Valley University provides quality academic learning opportunities for nearly 33,000 students through programs at the certificate, associate, baccalaureate, and graduate levels. The Graduate Council promotes excellence and engagement by providing administrative support and leadership to maintain and enhance graduate education at UVU. For information on these programs, contact the following individuals:

**Associate VP for Academic Affairs:**
Kathie Debenham  
Office: BA 216a  
Telephone: 801-863-7129  
E-mail: Kathie.Debenham@uvu.edu  
Fax: 801-863-6815

Administrative Assistant: Melody Rush  
Office: BA 216  
Telephone: 801-863-6748  
E-mail: graduate_studies@uvu.edu  
Fax: 801-863-6815

**GRADUATE COORDINATORS**

**Master of Education**
Mary Sowder  
Telephone: 801.863.6723  
E-mail: Mary.Sowder@uvu.edu

**Master of Science in Nursing**
Marianne Craven  
Telephone: 801.863.8052  
E-mail: CRAVENMA@uvu.edu

**Master of Business Administration**
Tammy Huffman  
Telephone: 801.863.8367  
E-mail: Tammy.Huffman@uvu.edu

**Graduate Council:**
Ernie Carey  
Marianne Craven  
K. Newell Dayley  
Kathie Debenham  
Briant Farnsworth  
Tammy Huffman  
Sam Rushforth  
Mary Sowder  
K.D. Taylor  
Ian Wilson  
Norman Wright  
David Yells

**Graduate Support Committee:**
Kathie Debenham, Chair  
Margaret Bellon  
Joe Belnap  
Eva Bernfeld  
Brian Blumer  
Erin Brown  
Ryan Burton  
Laura Busby  
Gaya Carlton  
Liz Childs  
Marianne Craven
The M.Ed. degree focuses on a project where applied research-based work in teaching and learning is the culminating activity. Students produce and report on an applied research project using appropriate research methods.

While core coursework is required of all participants in research, theory, and instructional models or ESL issues, areas of emphasis allow students to select any of the teaching content areas accepted by the Utah State Office of Education for either an elementary education or secondary education instructional project. This breadth includes any of the following content areas, (a) fine arts, (b) foreign language, (c) health, P.E. (d) mathematics, (e) language arts, (f) science, (g) social studies, (h) business education or (i) technology. These content areas allow students to tailor their program to their academic interests and desired skill development.

Participants enter as cohorts and progress through the degree program in a group. The culminating applied instructional project is unique to each student, but generally course work and many activities are done with fellow students. The learning outcomes are enhanced by having opportunities for students to work together and grow as a result of shared intellectual challenges.

The M.Ed. requires 30 semester hours of graduate course work and completion of a culminating applied instructional project. Work toward and completion of the graduate instructional project is a necessary part of the program in order for the student to demonstrate competence at the graduate level.

**ADMISSION AND 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.

**Tuition and Fees**

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Graduate Studies

| Credit Hours | RESIDENT | | | NON-RESIDENT | | |
|-------------|---------|---|---|---------|---|
|             | Tuition | Fees | Total | Tuition | Fees | Total |
| 8.5         | 1,878.50 | 322.00 | 2,200.50 | 8.5 | 5,780.00 | 322.00 | 6,102.00 |
| 9.0         | 1,989.00 | 322.00 | 2,311.00 | 9.0 | 6,120.00 | 322.00 | 6,442.00 |
| 9.5         | 2,099.50 | 322.00 | 2,421.50 | 9.5 | 6,460.00 | 322.00 | 6,782.00 |
| 10.0        | 2,210.00 | 322.00 | 2,532.00 | 10.0 | 6,800.00 | 322.00 | 7,122.00 |
| 10.5        | 2,320.50 | 322.00 | 2,642.50 | 10.5 | 7,140.00 | 322.00 | 7,482.00 |
| 11.0        | 2,431.00 | 322.00 | 2,753.00 | 11.0 | 7,480.00 | 322.00 | 7,802.00 |
| 11.5        | 2,541.50 | 322.00 | 2,863.50 | 11.5 | 7,820.00 | 322.00 | 8,142.00 |
| 12.0        | 2,652.00 | 322.00 | 2,974.00 | 12.0 | 8,160.00 | 322.00 | 8,482.00 |

For each credit hour over 12, $221 per credit hour will be assessed for residents and $680 per credit hour for non-residents.

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.

PROGRAM REQUIREMENTS

Master of Education in Curriculum and Instruction

<table>
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<th>Matriculation Requirements</th>
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<tr>
<td>1. Application for admission.</td>
<td></td>
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<tr>
<td>2. Bachelor’s degree from an accredited institution.</td>
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<tr>
<td>3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.</td>
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<tr>
<td>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.</td>
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<td>5. Interview with School of Education Graduate Committee.</td>
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<tr>
<td>6. Three professional letters of recommendation.</td>
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</table>

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: 30 Credits

- **EDUC 6100** Research Methodology (3.0)
- **EDUC 6110** Applied Statistics for Education (3.0)
- **EDUC 6200** Masters Project (3.0)
- **EDUC 6910** Project I (1.0)
- **EDUC 6920** Project II (1.0)
- **EDUC 6930** Project III (1.0)

Complete one of the following two options.

**Option One: Models of Instruction:**
- **EDUC 6300** Curriculum Design (3.0)
- **EDUC 6310** Program Assessment (3.0)
- **EDUC 6320** Instructional Models I (3.0)
- **EDUC 6330** Instructional Models II (3.0)

**Option Two: English as a Second Language:**
- **EDUC 6340** English as a Second Language Methods (3.0)
- **EDUC 6350** Theories of Second Language Acquisition (3.0)
- **EDUC 6360** Multicultural Education (3.0)
- **EDUC 6370** Assessment in English as a Second Language Learners (3.0)
- **EDUC 6380** Literacy and Linguistics in English as a Second Language (3.0)
- **EDUC 6390** Family and Community Involvement (3.0)

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 which are older than five years.

Courses

Admission to the master program or permission of the Dean of the School of Education is required for enrollment in the Master of Education courses.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefix:

- EDUC – Master of Education

Masters of Science in Nursing

College of Science and Health

Dean: Sam Rushforth
Office: PS 201
Telephone: 801-863-6441

Department Chair: Suzette Farmer
Office: HP 203x
Telephone: 801-863-8053

MSN Program Coordinator: Marianne Craven
Office: HP 203s
Telephone: 801-863-8052

Advisor: Lynnae Marsing
Office: HP 203a
Telephone: 801-863-6317
E-mail: marsingly@uvu.edu

Graduate Nursing Faculty:

- **Professor**
  - Gay Carlton
  - Marianne Craven
  - Gary Measom

- **Associate Professor**
  - Marlene Bacon
  - Hsiu-Chin “Sunny” Chen
  - Suzette Farmer

- **Assistant Professor**
  - Joohyun Chung
  - Linda Kochniuk
  - Dianne McAdams-Jones
  - Katherine Moore
  - Jean-Anne Talbert-Christensen

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 National League for Nursing Accrediting Commission (NLNAC) 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 which included descriptive and inferential components.
- Submission of Graduate Record Exam (GRE) scores.
- Completion of an undergraduate course in statistics, including descriptive and inferential components.
- 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.

Tuition and Fees

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For each credit hour over 12, $354 per credit hour will be assessed for residents and $889 per credit hour for non-residents.

Program Requirements

Master of Science in Nursing 33 CREDITS

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. (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: 33 Credits

- NURS 6000 Leadership Development 2.0
- NURS 6050 Nursing Informatics 2.0
- NURS 6250 Advanced Nursing Research 3.0
- NURS 6300 Advanced Nursing in Health Systems and Policy 2.0
- NURS 6400 Roles and Collaboration in Nursing Education 3.0
- NURS 6500 Curriculum Design and Development 3.0
- NURS 6600 Teaching Learning I Classroom Settings 2.0
- NURS 6605 Teaching Learning I Classroom Practicum 1.0
- NURS 6700 Evaluation of Learning Outcomes 3.0
- NURS 6800 Teaching Learning II Clinical Settings 2.0
- NURS 6805 Teaching Learning II Clinical Practicum 2.0
- NURS 6900 Synthesis of Teaching Practice 1.0
- NURS 6905 Synthesis of Teaching Practice Practicum 3.0
- NURS 699R MSN Project or Thesis (Project/thesis requires 2 to 6 credits) 2.0

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.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefix:
- NURS – Nursing

Graduate MBA Faculty:

Professor
James Bailey
Scott Hammond
Stanley E. Jenne
Susan Madsen
Peter Robinson
Sheldon R. Smith

Associate Professor
Deborah Baird
John Balden
Kathy Black
Paul Dishman
Lowell Glenn
PROGRAM DESCRIPTION

The Master of Business Administration program is an applied master degree that reflects the Woodbury School of Business long and distinguished history of providing business education to graduates seeking an advanced degree. The two-year program is dedicated to enhancing working professionals’ analytical, problem-solving, decision-making, and leadership skills.

A cohort of students study in MBA classrooms and state of the art finance lab on Friday evenings and Saturday mornings in four-hour blocks, an ideal schedule for enterprising professionals.

The AACSB-accredited program requires 33 credit hours in accounting, finance, marketing, and diverse areas of management. Students will complete eight core classes (24 credit hours) and three courses in one of two selected areas of emphasis, management or accounting.

The MBA program also embraces the university’s institutional emphasis on engaged-learning.

The primary focus of this engaged-learning model is the Capstone Engaged Learning Project, in which students participate in a community-development project.

Prerequisites

All students must complete the following courses (or equivalents) with a grade of C or higher before starting the program:

- ACC 2010 Financial Accounting
- ACC 2020 Managerial Accounting
- ECON 2010 Microeconomics
- MGMT 2340 Business Statistics

In addition, all students pursuing an accounting emphasis must fulfill the following additional prerequisites (or equivalents) with a grade of C or higher:

- ACC 3010 Intermediate Accounting I
- ACC 3020 Intermediate Accounting II
- ACC 3300 Cost Management
- ACC 3400 Individual Income Tax
- ACC 3510 Accounting Information Systems
- ACC 4020 Advanced Financial Accounting
- ACC 4110 Auditing
- ACC 4420 Corporate Tax
- or ACC 4400 Taxation of Corp/Part/Estates/Trusts

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. Submit a current resume that includes educational background and professional workplace experience.
5. Provide three letters of recommendation mailed from the writer directly to the Woodbury School of Business.
6. Send official GMAT test scores. Prospective students must complete the GMAT test with a minimum score at or above the 40th percentile overall in the verbal and quantitative portions; special consideration will be given to the quantitative score. GMAT registration is available at www.mba.com.
7. Submit TOEFL scores with a minimum of 79 for the Internet-based test. (Only for applicants for whom English is a second language and who have not earned a degree in the United States.)

Reapplication

If an applicant is not admitted, he/she may reapply. All current admission requirements at the time of application must be met.

Tuition and Fees

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For each credit hour over 12, $387 per credit hour will be assessed for residents and $840 per credit hour for non-residents.

Satisfactory Progress

Continuation in the Master of Business Administration program is determined by: (1) satisfactory progress (C 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 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.

PROGRAM REQUIREMENTS

Master of Business Administration  
33 CREDITS

Discipline Core Requirements: 24 Credits

- ACC 6350 Accounting Strategies for Achieving Profit Goals 3.0
- FIN 6150 Financial Management 3.0
- MGMT 6450 Operations Management 3.0
- MGMT 6500 Managing Individuals and Groups 3.0
- MGMT 6510 Information Systems for Business (3.0)
  or ACC 6500 Advanced Accounting Information Systems 3.0
- MGMT 6600 Marketing Strategy 3.0
- MGMT 6800 Business Ethics and Social Responsibility 3.0
- MGMT 6900 Global Business Strategy 3.0

Emphasis: Complete one of the following:

- Accounting 9.0
- Management 9.0

Graduation Requirements:

1. Completion of 33 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.

Emphasis in Accounting 9 Credits

Emphasis Requirements: 9 Credits

- ACC 6410 Tax Research and Procedure 3.0
- ACC 6510 Financial Auditing 3.0
- ACC 6960 Capstone Accounting Theory and Research 3.0

Emphasis in Management 9 Credits

Emphasis Requirements: 9 Credits

- MGMT 6860 Tax Research and Procedure 3.0
- MGMT 6960 Financial Auditing 3.0
- MGMT 6740 Capstone Accounting Theory and Research (3.0)
  or ECON 6300 Advanced Accounting Information Systems (3.0)
  or ECON 6330 Advanced Accounting Information Systems 3.0

Courses

Admission to the master program is a requirement for enrollment in the Master of Business Administration courses.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefix:

- ACC, Accounting
- ECON, Economics
- FIN, Finance
- MGMT, Business Management
INTERDISCIPLINARY PROGRAMS

Occasionally academic programs span all or several of the Colleges/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 addresses complex problems by drawing on multiple disciplinary tools.

UVU offers several curriculum-spanning opportunities for students to explore interdisciplinary relationships.

The Integrated Studies Program allows students to engage in cross-disciplinary research that can culminate in an associate and/or bachelor degree.

The Interdisciplinary Studies Program offers nine stand-alone minors, in topic-specific areas with curricula drawn from various departments.

The Honors Program works with a number of departments and schools on campus to prepare students for graduate school through interdisciplinary research, internship, field, and experiential learning opportunities.

The Center for the Study of Ethics provides opportunities for students to think more deeply about the ethical dimensions of contemporary life.

The Leadership Certification Program brings together students who are interested in strengthening their leadership skills, no matter what their major.

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.

Vice President for Academic Affairs: Ian Wilson
Office: BA 218
Telephone: 801-863-8048
Email: ian.wilson@uvu.edu

INTEGRATED STUDIES

Director: Scott Abbott
Office: LI 511
Telephone: 801-863-6537
E-mail: scott.abbott@uvu.edu

Advisor: Lynne Hetzel
Office: LI 507
Telephone: 801-863-6485 or 801-863-8455
E-mail: is_advising@uvu.edu or lynne.hetzel@uvu.edu

Administrative Support: Mark Olson
Office: LI 508
Telephone: 801-863-5888
E-mail: mark.olson@uvu.edu

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 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. For more information, please visit the Integrated Studies website at http://www.uvu.edu/.

**INTERDISCIPLINARY STUDIES PROGRAMS**

Interdisciplinary Studies Faculty Committee Chair: Jans B. Wager  
Office: LA 114j  
Telephone: 801-863-8340  
Fax: 801-863-6255  
E-mail: jans.wager@uvu.edu

Administrative Support: Mark Olson  
Office: LI 508  
Telephone: 801-863-5888  
E-mail: markolson@uvu.edu

Interdisciplinary Studies (IDST) 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*

An asterisk denotes that an Integrated Studies emphasis is available.

**HONORS PROGRAM**

Main Office: LC 204  
Telephone: 801-863-6262  
Fax: 801-863-6562  
Website: www.uvu.edu/honors

Faculty Director: Michael M. Shaw  
Office: LA 121p  
Telephone: 801-673-4382  
Fax: 801-863-6562  
E-mail: shawmi@uvu.edu

The Honors Program at Utah Valley University provides opportunities for students to realize academic, professional, civic, and human potential. Open to highly motivated students pursuing any associate or baccalaureate degree, Honors offers small courses with outstanding faculty featuring innovative classroom approaches, experiential learning, cultural events, and unique social gatherings. Honors students 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, 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.

**CENTER FOR THE STUDY OF ETHICS**

Director: David R. Keller  
Associate Director: Jill O. Jasperson  
Executive Program Coordinator: Don LaVange  
Office: LA 109  
Telephone: 801-863-6455  
E-mail: ethicscenter@uvu.edu  
Website: ethicscenter.info

The purpose of the Center for the Study of Ethics (CSE) is to facilitate and support the academic study of ethics in interdisciplinary contexts. Interdisciplinary ethics includes (1) traditional moral philosophy and (2) the integration of theory and practice across the disciplines and professions. CSE activities include public forums and support of faculty and student scholarship.

Based on the premise that an educated citizenry is necessary for democracy, the CSE aims to foster dialogue and build community. While the CSE is non-advocacy, many events are organized around political topics where respected scholars and public figures advocate particular positions on ethics and public policy. Advocacy in public forums must meet minimum academic standards.

Scholarship and civil discourse have individual and social dimensions. Interdisciplinary ethics aids individuals in making personal decisions relevant to private and professional life. Interdisciplinary ethics also engages individuals with others in dialogue.

The programming of the CSE centers around three signature initiatives: Ethics Across the Curriculum, which focuses on the implementation of the study of ethics in Liberal Arts and Professional disciplines; the Utah Democracy Project, which facilitates public discourse on public policy issues; and the University Faculty Fellows in Ethics, which supports faculty scholarship in interdisciplinary ethics.

All CSE events are free and open to the public.

**THE CENTER FOR THE ADVANCEMENT OF LEADERSHIP**

Director: Kirk Young  
Office: LC 302  
Telephone: 801-863-6466  
E-mail: Kirk.Young@uvu.edu  
Fax: 801-863-6136

**Leadership Certification Program**

The Center for the Advancement of Leadership (CAL) has designed an extra-curricular Leadership Certification Program 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 Leadership Certification Program 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.
Interdisciplinary Programs

All students are invited to preview the program by visiting our website at www.uvu.edu/leadership, attending our monthly Master Mind Meeting the first Monday of each month, requesting a DVD, or visiting our office in LC 302 (863-6466).

Leadership Certification Structure
There are four certification options that are available through the CAL. Each certification denotes a different level of rigor. Students can choose between: 10-Step Leadership Certification (approximately 1 year to complete); 10-Step Leadership Certification with Distinction (approximately 1 ½ - 2 years to complete) and 10-Step Leadership Certification with High Distinction (approximately 2-2 ½ years to complete). Each leadership certification program has been customized for every academic degree on campus. Details of these options and other elements can be viewed at www.uvu.edu/leadership.

In addition to the 10-Step Leadership Certification Program, the CAL offers a 3-Step Leadership Certification Option which allows Leadership Certification seeking students the opportunity to focus more intently on the coursework (Step 5), the workshops/seminars (Step 6), and their leadership experience (Step 7).

Advisory Board:
David Adams, owner Dave Adams Classic Auto Repair; Jorge Aguero, Director Latino Marketing & Development, Utah Community Credit Union; Lisa Beanerson, President Lisa Beanerson Enterprises; Gary Dunn, Lone Peak High School; Kris Hoffman, Vice President Hoffman and Company; Bill Hulterstrom, President & CEO United Way of Utah County; Lorena Jenson, President Vox Creative; David Johnson, Technology Management Department Chair; Jeff Kahn, (Current Board Chair) RJR Investments; Bob Ligget, President Corporate Pulse Consulting; Mia Love, Mayor Saratoga Springs; Mark McCormack, President ADP Lemco Inc.; Lieutenant Colonel Hank McIntire, Public Affairs Officer Utah National Guard; Robert Muhlestein, CEO Harmony Educational Services; Roxanne Musselman, President Musselman & Associates; Craig Porter-Rollins, CEO LJ Cooper; David Reeves, President Agency Building Resources; Sue Russell; Bill Siddoway; Paul Thompson.
Accounting

Department Chair: Steve Johnson
Office: WB 136b
Telephone: 801-863-7186
E-mail: steve.johnson@uvu.edu

Faculty:
Professor
James Bailey
Ben Bean
Stan Jenne
Sheldon Smith
Michael Stenskoski
Steve Teeter
Associate Professor
John Balden
Kathy Black
Steve Johnson
Assistant Professor
Josh Cieslewicz
Joel Helquist
Bunney Schmidt
Kevin Smith

Advisory Committee: Shane Edwards, Partner, Squire (Chair); MK Mortensen, Sr. Manager - Tax, Grant Thornton; Josh Rowley, Partner, Hawkins, Clayward & Simister; Ross Youngberg, Partner, Hanson Barnett and Maxwell; Rob Anderson, Manager, Tanner; Joe Christensen, Deputy, State Auditor Office; Tom Green, Consultant, Jefferson Wells.

Woodbury School of Business
Dean: Norman S. Wright
Office: WB 128b
Telephone: 801-863-8260
E-mail: Norman.Wright@uvu.edu

CAREER OPPORTUNITIES

Accountants have always been in high demand. You can work as an accountant in many types of organizations, including, sports and entertainment, government, education, manufacturing, charitable and non profit, and medical. An accounting degree is a great springboard into graduate studies and law school. The accounting profession is often ranked near the top of occupations and professions in greatest demand. According to the Department of Labor, the employment of accountants is expected to continue to grow. Robert Half, the world’s largest recruiter of accounting graduates, reports that there is a shortage of qualified accounting professionals not only in the United States, but worldwide.

The Accounting Profession

Accounting is a core business function vital to an organization’s success. Accounting has evolved over the years and continues to evolve. This provides the accountant with stimulating and challenging work. The role of accountants has expanded and they are considered to be a valuable part of the management team in implementing business decisions. Most CEOs of large corporations have accounting degrees. Accountants usually have the best understanding of what drives business and profits in a company. Successful accountants must possess strong interpersonal skills, as accounting is a people business. Accountants must develop strong analytical and problem solving skills. They should also have some expertise in spreadsheets, database application, and integrated software packages. Accountants must be able to successfully communicate both orally and in writing.

Job opportunities for accountants are favorable. They can find employment in Utah Valley, anywhere in the United States, or many places throughout the world.

COOPERATIVE EDUCATION/INTERNSHIP

A Cooperative Education or Internship course is highly recommended for majors. College credit is granted for paid work experience through the Coop/Internship Program. The department provides lower division Coop and upper division internship courses. Contact the Accounting Career and Corporate Manager, John Wilson 863-6307, for further information regarding Cooperative Education/Internship opportunities.

PROGRAMS

Students in accounting may receive a One-year Certificate, an Associate in Applied Science Degree, an Associate in Science Degree, or a Bachelor of Science Degree in Accounting. A Master of Business Administration Degree with an Accounting Emphasis, sponsored by Utah State University, is also available through the University Center.

Certificate in Accounting 30 Credits

Discipline Core Requirements: 24 Credits

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Graduation Requirements:

1. Minimum of 30 credits required for a Certificate.
2. Overall GPA of 2.0 required for graduation with a grade lower than a “C-” in Woodbury School of Business classes.

AAS in Accounting 64 Credits

General Education Requirements: 16 Credits

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<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 2200</td>
<td>Business Communication</td>
</tr>
<tr>
<td>ACC 1150</td>
<td>Fundamentals of Business Math</td>
</tr>
</tbody>
</table>

 ASP in Accounting 61 Credits

General Education Requirements: 38 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
</tr>
<tr>
<td>ACC 2020</td>
<td>Financial Accounting (3.0)</td>
</tr>
<tr>
<td>ACC 2020</td>
<td>Managerial Accounting (3.0)</td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Organizational Behavior</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 24 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ACC 2100</td>
<td>Financial Accounting (3.0)</td>
</tr>
<tr>
<td>ACC 2030</td>
<td>Principles of Accounting</td>
</tr>
<tr>
<td>DGM 2360</td>
<td>Business Computer Proficiency</td>
</tr>
<tr>
<td>MGMT 4595</td>
<td>Executive Lecture Series</td>
</tr>
</tbody>
</table>

Elective Requirements: 24 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete any coursework from the following prefixes: ACC, ECON, FIN, HM, LEGL, MKTG, MGMT</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 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 Woodbury School of Business.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Footnotes:

- Students will be required to complete DGM 2010 with a score of 80 percent or higher.

AS Pre Major in Accounting 61 Credits

General Education Requirements: 38 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
</tr>
<tr>
<td>ECON 2010</td>
<td>Principles of Accounting</td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Managerial Accounting (3.0)</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 24 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 2020</td>
<td>Financial Accounting (3.0)</td>
</tr>
<tr>
<td>ACC 2030</td>
<td>Principles of Accounting</td>
</tr>
<tr>
<td>MGMT 3000</td>
<td>Managerial Accounting (3.0)</td>
</tr>
</tbody>
</table>

Elective Requirements: 15 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete three of the following courses</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 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 UUV 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.

Footnotes:

- Students will be required to complete DGM 2010 with a score of 80 percent or higher.
• MGMT 2340  Business Statistics I  3.0
• MATH 1100  Introduction to Calculus  4.0
• DGM 2010  Business Computer Proficiency  3.0
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.

Footnotes:
* 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.

BS in Accounting  120 Credits

General Education Requirements: 36 Credits
• ENGL 1010  Introduction to Writing  3.0
• ENGL 1100  Intermediate Writing--Humanities/ Social Sciences (3.0) or
• ENGL 2020  Intermediate Writing--Science and Technology  3.0
• MATH 1050  College Algebra  4.0
or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher
Complete one of the following:  3.0
• 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
or
• HLTH 1100  Personal Health and Wellness (2.0) and
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: 66 Credits
Business Foundation Courses:
• ACC 2010  Financial Accounting (3.0) and
ACC 2020  Managerial Accounting (3.0)
or
ACC 2030  Principles of Accounting  6.0
• DGM 2010  Business Computer Proficiency or Business Computer Proficiency Exam
• MATH 1100  Introduction to Calculus  4.0
• ECON 2010  Microeconomics  3.0
• ECON 2020  Macroeconomics  3.0
• MGMT 2200  Business Communication  3.0
• MGMT 2340  Business Statistics I  3.0
* MGMT 2390  Effective Business Presentations  3.0

Business Core Courses:
• LEGL 3000  Business Law  3.0
• FIN 3100  Principles of Finance  3.0
• INFO 3120  Principles of Information Systems--A Managerial Approach  3.0
• MKTG 3600  Principles of Marketing  3.0
• MGMT 3000  Organizational Behavior  3.0
• MGMT 3300  Survey of International Business  3.0
• MGMT 3450  Operations Management *  3.0
• MGMT 4850  Strategic Management  3.0
* MGMT 4830  Strategic Management Capstone Simulation

• MGMT 495R or MGMT 493R  Entrepreneurship Lecture Series  1.0

Accounting Core Courses:
• ACC 3010  Intermediate Accounting I  3.0
• ACC 3020  Intermediate Accounting II  3.0
• ACC 3300  Cost Management  3.0
• ACC 3510  Accounting Information Systems  3.0
• ACC 3400  Individual Income Tax  3.0

Elective Requirements: 18 Credits
• Complete at least 9 credits from the following courses  9.0
• ACC 3120  Internal Auditing (3.0) *
• ACC 4020  Advanced Financial Accounting (3.0)
• ACC 4030  Governmental and Not-For-Profit Accounting (3.0) *
• ACC 4110  Auditing (3.0) *
• ACC 4350  Management Control (3.0) *
• ACC 4400  Taxation of Corporations/Partnerships/Estates and Trusts (3.0)
or
ACC 4420  Corporate Tax (3.0) and
ACC 4440  Partnership Tax (3.0)
• ACC 4510  Information Systems Auditing (3.0) *
• Complete 9 hours of elective credits at any level.  9.0

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.

Footnotes:
** 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.
* Courses with an asterisk (*) cannot be taken until student is matriculated.

Minor in Accounting  24 Credits

Matriculation Requirements: 12 Credits
• ACC 2010  Financial Accounting (3.0) and
ACC 2020  Managerial Accounting (3.0)
or
ACC 2030  Principles of Accounting  6.0

Elective Requirements: 12 Credits
Choose 12 credits from the following:

• ACC 3300  Cost Management (3.0)
• ACC 3400  Individual Income Tax (3.0)
• ACC 3510  Accounting Information Systems (3.0)
• ACC 4110  Auditing (3.0) *
• ACC 4400  Taxation of Corporations/Partnerships/Estates and Trusts (3.0)

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.

NOTE: Students are responsible for completing all prerequisite courses.

Footnotes:
* Courses with an asterisk (*) cannot be taken until student is matriculated into a bachelor degree program.

BA/BS in Integrated Studies  123 Credits

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Accounting  18 Credits

Matriculation Requirements: 18 Credits
• ACC 3010  Intermediate Accounting I  3.0
• ACC 3020  Intermediate Accounting II  3.0

Choose 12 credits from the following:

• ACC 3300  Cost Management (3.0)
• ACC 3400  Individual Income Tax (3.0)
• ACC 3510  Accounting Information Systems (3.0)
• ACC 4110  Auditing (3.0)
• ACC 4400  Taxation of Corporations/Partnerships/Estates and Trusts (3.0)
Administrative Information Management

Department of Digital Media

Department Chair: Jan Bentley
Office: CS 526
Telephone: 801-863-6362

Faculty:
Professor
Cynthia Krebs
Associate Professor
Jan Bentley

Administrative Support: Celena Patten
Office: CS 526
Telephone: 801-863-8485

Advisor: Joyce Porter
Office: CS 635h
Telephone: 801-863-7125
E-mail: joyce.porter@uvu.edu

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8327

PROGRAMS
The one-year certificate provides software application, written business communication, and basic accounting skills for entry-level positions in business, industry, and government.

The two-year AAS and AS degrees provide training for students to be employed in such areas as administrative information managers, office managers, executive assistants, project managers, and other administrative support positions in business, industry, and government.

Certificate in Administrative Support 30 Credits

Discipline Core Requirements: 24 Credits

- DGM 1063 Image Editing (2.0)
- DGM 2120 Web Essentials (3.0)
- DGM 210R Special Topics in Digital Media (1.0)
- FIN 1060 Personal Finance (3.0)
- Other pre-approved electives; see advisor for details

Graduation Requirements:
- Overall GPA of 2.0 or higher with a minimum grade of "C-".

Footnotes:
- Take near end of program

AAS in Administrative Information Support 64 Credits

General Education Requirements: 16 Credits

- ENGLISH
  - MGMT 2200 Business Communication 3.0
- MATHEMATICS
  - ACC 1150 Fundamentals of Business Math 3.0
  - MAT 1010 Intermediate Algebra (4.0) *
  - or MATH 1050 College Algebra (4.0)
- HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
  - ENGL 1010 Introduction to Writing 3.0
- SOCIAL AND BEHAVIORAL SCIENCE
  - ECON 2020 Macroeconomics 3.0
  - or MGMT 3000 Organizational Behavior (3.0)
  - or PSY 1010 General Psychology (3.0)
- BIOLOGY OR PHYSICAL SCIENCE
  - Any approved Biology or Physical Science Distribution
- PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
  - Any approved Physical Education, Health, Safety, or Environment Course

Discipline Core Requirements: 20 Credits

- DGM 1110 Digital Media Essentials I 4.0
- DGM 2120 Web Essentials 3.0
- DGM 2300 Records and Information Management 3.0
- DGM 2350 Word Processing Applications 3.0
- DGM 2360 Spreadsheet Applications 3.0
- DGM 2370 Database Applications 3.0
- DGM 3820 Presentation Applications 3.0
- DGM 3850 Desktop Publishing Skills 3.0
- DGM 2200 Business Communication 3.0
- DGM 2370 Introduction to Business (3.0)
- DGM 191R Phi Beta Lambda (1.0)
- DGM 3340 Human Resource Management (3.0)
- MGMT 3890 Career Preparation (2.0)

Elective Requirements: 19 Credits

Choose a minimum of 19 credits from the following: 19.0

- DGM 1063 Image Editing (2.0)
- DGM 281R Internship (1.0)
- DGM 298R Seminar (1.0)
- DGM 496R Information Management Seminar (1.0)
- LEGL 3000 Business Law (3.0)
- MGMT 1010 Introduction to Business (3.0)
- MGMT 182R Phi Beta Lambda Leadership (1.0)
- MGMT 3000 Organizational Behavior (if not counted as Social Science credit) (3.0)
- MGMT 3430 Human Resource Management (3.0)
- MKTG 3600 Principles of Marketing (3.0)
- FIN 1060 Personal Finance (3.0)
- Other pre-approved electives; see advisor for details

Graduation Requirements:
- 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-.
- A minimum keyboarding skill of 40 net words per minute is required for graduation.
- Residency hours—minimum of 20 credit hours through attendance at UVU.
- Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Footnotes:
- Take near end of program.
- Potential 4-year students need to take the eight elective credits from the following: DGM 1063, DGM 2120, DGM 2300, DGM 3850.

AS Pre Major in Administrative Information Management 60 Credits

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing—Science and Technology
- 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 3.0
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2.0

Distribution Courses:
- ECON 2020 Macroeconomics (fulfills Social/Behavioral Science) 3.0
- BIOL 1050 Biological Science 3.0
- PHYS 1050 Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0

Discipline Core Requirements: 19 Credits

- DGM 2350 Word Processing 3.0
- DGM 2360 Spreadsheet Applications 3.0
- DGM 2370 Database Applications 3.0
- DGM 3820 Presentation Applications 3.0
- ACC 2010 Financial Accounting 3.0
- or ACC 3000 Financial and Cost Accounting Concepts (4.0)
- MGMT 2200 Business Communication 3.0
- MGMT 2250 Job Application and Advancement Skills *
- or MGMT 3890 Career Preparation (2.0) *

Elective Requirements: 5 Credits

Complete 5 credits from the following: 5.0

- DGM 1063 Image Editing (2.0)
- DGM 2120 Web Essentials (3.0)
- DGM 2300 Records and Information Management (3.0)
- DGM 3850 Desktop Publishing Skills (3.0)
- Other pre-approved electives; see advisor for details

Graduation Requirements:
- Completion of a minimum of 60 semester credits.
- 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-.
- Residency hours—minimum of 20 credit hours through attendance at UVU.
- Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Footnotes:
- Take near end of program.
- Potential 4-year students need to take the eight elective credits from the following: DGM 1063, DGM 2120, DGM 2300, DGM 3850.

BA/BS in Integrated Studies 123 Credits

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Office Management 20 Credits

Emphasis Requirements:

- DGM 2350 Word Processing Applications (3.0)
- DGM 2360 Spreadsheet Applications (3.0)
- DGM 2370 Database Applications (3.0)
- DGM 3820 Presentation Applications (3.0)
- MGMT 2200 Business Communication (3.0)

Complete the following required courses:

- DGM 2120 Web Essentials 3.0
- DGM 3220 Digital Media Project Management 3.0
- DGM 4350 Information Workflow Management 3.0
Complete 11 or more credits from the following: 11.0

- ACC 3000  Financial Managerial and Cost Accounting Concepts (4.0)
- DGM 1063  Image Editing (2.0)
- FIN 1060  Personal Finance (3.0)
- LEGL 3000  Business Law (3.0)
- MGMT 2390  Effective Business Presentations (3.0)
- MGMT 3430  Human Resource Management (3.0)
- MGMT 3890  Career Preparation (2.0)

NOTE: A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- BMED, Business/Marketing Education
- COMP, Computing
- DGM, Digital Media
PROGRAM DESCRIPTION
The Department of Art and Visual Communications prepares students for careers in art education, fine arts and the applied arts. 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 communication and are open to all. The Bachelor of Science in Art Education helps prepare students to teach in K-12 schools. Many of our 1000 level courses also fulfill general education requirements.

CAREER OPPORTUNITIES
Our degrees prepare students for various career opportunities in art, some of which are delineated below. The BFA program helps prepare students for one of the specific areas listed below. The BS/BA degrees are not designed for specific specialization but are more general in nature, while still providing a sound base for many of the areas below.

Fine Arts: Painting/Drawing; Sculpture/Ceramics; Photography
Students are prepared to compete in the arts arena 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 firms such as advertising agencies, design firms, in-house design studios, printing firms, photography studios, web developers, gaming developers, animation studios and for freelance consulting work (self-employed). Some students may also choose to further their studies in graduate programs.

Graduation Requirement: Portfolio Review
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 Communication Department has implemented a student portfolio review. All students graduating with a degree in the Art and Visual Communication Department are required to submit a portfolio for faculty/professional review. 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, including the mandatory graduating student portfolio review.

Certificate in Art and Visual Communications 30 Credits

Education: BS in Art Education
The Bachelor of Science in Art Education certifies students to teach as an art specialist for grades K-12 in public schools and private schools.

PROGRAMS
Eight options are available: a One-year Certificate; the Associate in Applied Science Degree (AAS); the Associate in Arts Degree (AA); the Associate in Science Degree (AS); the Bachelor of Arts Degree (BA); the Bachelor of Science Degree (BS); the Bachelor of Science in Art Education Degree (BS); the Bachelor of Fine Arts Degree (BFA).

Bachelor of Fine Arts (BFA) Requirements:
This degree is for those with exceptional abilities in art. 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 the departmental BFA review. The portfolio reviews are held in October and March. Students may submit a portfolio at either review. 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 & ARTH courses. Courses within the student’s area of emphasis must be completed with a C grade or above. ART 499R must be completed with a B 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. Students not accepted into the BFA program may still pursue the more general BS/BA degrees. Students accepted into the BFA program who are unable to fulfill the above requirements may still qualify for the BS/BA degree.

Certificate in Art and Visual Communications 30 Credits

Discipline Core Requirements: 16 Credits
• ART 1120 2D Design 3.0
• ART 1400 Graphic Computer Applications 3.0
• ART 1110 Drawing I 3.0
• ART 1050 Photography I 3.0
• ARTH 2710 History of Art to the Renaissance (3.0)
or ARTH 2720 History of Art from the Renaissance 3.0
• ART 1130 3D Design 3.0

Elective Requirements: 12 Credits
• Any ART course not already taken (See Department Advisor). 12.0

Sculpture/Ceramics
Painting/Drawing,
Photography
BFA Degree in Illustration or
Applied Arts: Graphic Design; Illustration;
Photography
Students are prepared to compete for admission. Students not accepted into the program may apply up to 2 additional times for admission. Students not accepted into the BFA program may still pursue the more general BS/BA degrees. Students accepted into the BFA program who are unable to fulfill the above requirements may still qualify for the BS/BA degree.
AAS in Art and Visual Communications
61 Credits

General Education Requirements: 18 Credits
- ENGL 1010 Introduction to Writing 3.0
- MAT 1010 Intermediate Algebra* (4.0)
- or ACC 1150 Fundamentals of Business Math* 3.0
- Social or Behavioral Science 3.0
- Biology or Physical Science 3.0
- P.E. or Health 1.0
- ARTH 2710 History of Art from the Renaissance (3.0)
- or ARTH 2720 History of Art from the Renaissance 3.0

Discipline Core Requirements: 15 Credits
- ART 1120 2D Design 3.0
- ART 1400 Computer Graphic Applications 3.0
- ART 1110 Drawing I 3.0
- ART 1050 Photography I 3.0
- ART 1130 3D Design 3.0

Emphasis:
Complete one of the following:
- Design/Illustration 33.0
- Graphic Design 33.0
- Photography 33.0

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.
4. Completion of GE and specified departmental requirements.

Footnotes:
• See AVC advisor

Emphasis in Design/Illustration 33 Credits
Emphasis Requirements: 21 Credits
- ART 2210 Drawing for Illustration 3.0
- ART 2230 Illustrative Media and Techniques I 3.0
- ART 2240 Illustrative Media and Techniques II 3.0
- ART 2450 Interactive Design I 3.0
- ART 2630 Painting I 3.0
- or ART 1650 Watermedia I (3.0)
- ART 2640 Painting II 3.0
- or ART 2650 Watermedia II (3.0)
- ART 200R Art and Visual Communications Lectures (1.0)

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:
- ART 2450 Digital Imaging I (3.0)
- ART 3210 Illustration I (3.0)
- ART 3230 Illustration II (3.0)
- ART 361R Figure Drawing I (3.0)

Emphasis in Graphic Design 33 Credits
Emphasis Requirements: 21 Credits
- ARTH 1410 Typography and Layout I 3.0
- ART 2400 Digital Prepress 3.0
- ART 2410 Typography and Layout II 3.0
- ART 2430 Graphic Design I 3.0
- ART 2450 Digital Imaging I 3.0
- ART 200R Art and Visual Communications Lectures (1.0)
- ART 2460 Interactive Design I 3.0

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:
- ARTH 3010 History of Design and Visual Arts Distribution Courses (3.0)
- ART 346R Interactive Design II (3.0)
- ART 3410 Advanced Typography Layout III (3.0)
- ART 3430 Graphic Design II (3.0)

Emphasis in Photography 33 Credits
Emphasis Requirements: 27 Credits
- ART 1790 Dark Room Techniques 3.0
- ART 2450 Digital Imaging I 3.0
- ART 2700 Photography II 3.0
- ART 2672 2720 Color Photography 3.0
- ART 2730 Photographic Lighting 3.0
- ART 200R Art and Visual Communications Lectures (1.0)

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:
- ARTH 3200 The History of Photography 3.0

AA Pre Major in Art and Visual Communications
61 Credits

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- 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 since 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- or HIST 1700 American Civilization (3.0)
- or HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- and POLS 1100 American National Government (3.0)

Elective Requirements: 8 Credits
Complete 8 credits of the same Foreign Language

Graduation Requirements:
1. Completion of a minimum of 61 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. For the AA degree, completion of 8 credit hours of course work from one language.

AS Pre Major in Art and Visual Communications
62 Credits

General Education Requirements: 35 Credits
- 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 2700 US History since 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- or HIST 1700 American Civilization (3.0)
- or HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- and POLS 1100 American National Government (3.0)

Elective Requirements: 8 Credits
- PHIL 2050 Ethics and Values 3.0

Graduation Requirements:
1. Completion of a minimum of 62 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.

BA in Art and Visual Communications
120 Credits

General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- 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 since 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- or HIST 1700 American Civilization (3.0)
- or HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- and POLS 1100 American National Government (3.0)

Elective Requirements: 8 Credits
- PHIL 2050 Ethics and Values 3.0
- 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 4.0

Discipline Core Requirements: 63 Credits
- ART 1050 Photography I 3.0
- ART 1110 Drawing I 3.0
- ART 1120 2D Design 3.0
- ART 1130 3D Design 3.0
- ART 1400 Graphic Computer Applications 3.0
- ART 200R Art and Visual Communications Lectures (1.0)
- ART 4890 Senior Seminar 3.0
- ART 4990 Senior Studio 3.0
- ARTH 2710 History of Art from the Renaissance 3.0

Complete an additional 36 ART/ARTH upper division credits not already taken.

Elective Requirements: 21 Credits
- One Foreign Language 12.0
- Complete any courses 1000 level or higher 9.0

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 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 two languages to include the 1010, 1020, 2010, and 2020 levels or transferred equivalents.

BS in Art and Visual Communications 122 CREDITS

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)

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 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 Government (3.0)

Complete the following:
- PHIL 2050 Ethics and Values 3.0
- HLTH 1110 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2.0

Distribution Courses
- Biology
- Physical Science
- Additional Biology or Physical Science
- Humanities Distribution
- Fine Arts
- Social/Behavioral Science

Discipline Core Requirements: 72 Credits
- ART 1120 2D Design 3.0
- ART 1400 Graphic Computer Applications 3.0
- ART 1110 Drawing I 3.0
- ART 1050 Photography I 3.0
- ART 2720 History of Art from the Renaissance 3.0
- ART 1130 3 D Design 3.0
- ART 4890 Senior Seminar 3.0
- ART 200R Art and Visual Communications Lectures (must be repeated) (1.0)
- ART 4990 Senior Studio 3.0
- ART 1050A Art and Visual Communications Laboratories (1.0)
- Complete 45 credits from any ART/ARTH courses 45.0
- not already taken, of which 36 credits must be upper division

Elective Requirements: 15 Credits
- Complete any courses 1000 level or higher 15.0

Graduation Requirements:
1 Completion of a minimum of 122 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 Completion of GE and specified departmental requirements.

BS in Art Education 120 CREDITS

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 PRAXIS I Pre-Professional Skills Test (PPST) scores of Reading 170 and Mathematics 173 or higher.
2 GPA of 2.75 or higher.
3 Completion of General Education requirements and two pre-professional education courses.
4 An interview by the Teacher Education Selection and Retention Committee.
5 Pass a criminal background check.

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

Complete one of the following:
- 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:
- 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 Government (3.0)

Complete the following:
- PHIL 2050 Ethics and Values 3.0
- HLTH 1110 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2.0

Distribution Courses
- Biology
- Physical Science
- Additional Biology or Physical Science
- Humanities Distribution
- ARTH 2710 History of Art to the Renaissance
- Social/Behavioral Science

Discipline Core Requirements: 30 Credits
- ART 1120 2D Design 3.0
- ART 1400 Graphic Computer Applications 3.0
- ART 1110 Drawing I 3.0
- ART 1050 Photography I 3.0
- ART 1130 3D Design 3.0
- ART 3510 Art and Visual Communications Lectures (Must be taken 3 times) (1.0)
- ART 4990 Senior Seminar 3.0
- ART 499R BFA Project (Must be taken in two consecutive semesters) (3.0)
- ARTH 2720 History of Art from the Renaissance 3.0

Emphasis:
Complete one of the following:
- Graphic Design 51.0
- Illustration 51.0
- Painting and Drawing 51.0
- Photography 51.0
- Sculpture and Ceramics 51.0

Elective Requirements: 9 Credits
- Complete any ART/ARTH courses not already used. 9.0

Graduation Requirements:
1 Completion of a minimum of 125 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 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 Portfolio review required during senior year.

Emphasis in Graphic Design 51 Credits

Emphasis Requirements: 42 Credits
- ART 1410 Typography and Layout I 3.0
- ART 1420 Introduction to Graphic Design 3.0
- ART 2400 Digital Prepress 3.0
- ART 2410 Typography and Layout II 3.0
- ART 2430 Graphic Design I 3.0
- ART 2450 Digital Imaging I 3.0
- ART 2460 Digital Imaging II 3.0
- ARTH 3010 History of Design and Visual Arts 3.0

Complete 18 credits from the following: 18.0
- ART 3410 Advanced Typography Layout (3.0)
- ART 3430 Graphic Design II (3.0)
- ART 346R Interactive Design II (3.0)
- ART 3470 Digital Painting (3.0)
- ART 443R Special Topics in Graphic Design (3.0)
- ART 446R Advanced Interactive Design (3.0)

Emphasis Elective Requirements: 9 Credits
- Complete any upper-division ART or ARTH course not already completed or any advisor approved course 9.0

Emphasis in Illustration 51 Credits

Emphasis Requirements: 42 Credits
- ART 1410 Typography and Layout I 3.0
- ART 1420 Introduction to Graphic Design 3.0
- ART 2400 Digital Prepress 3.0
- ART 2410 Typography and Layout II 3.0
- ART 2430 Graphic Design I 3.0
- ART 2450 Digital Imaging I 3.0
- ART 2460 Digital Imaging II 3.0
- ARTH 3010 History of Design and Visual Arts 3.0

Complete 18 credits from the following: 18.0
- ART 3410 Advanced Typography Layout (3.0)
- ART 3430 Graphic Design II (3.0)
- ART 346R Interactive Design II (3.0)
- ART 3470 Digital Painting (3.0)
- ART 443R Special Topics in Graphic Design (3.0)
- ART 446R Advanced Interactive Design (3.0)

Emphasis Elective Requirements: 9 Credits
- Complete any upper-division ART or ARTH course not already completed or any advisor approved course 9.0
### Emphasis in Illustration 51 Credits

**Emphasis Requirements:** 21 Credits
- ART 2210 Drawing for Illustration 3.0
- ART 2220 Illustrative and Visual Literacy 3.0
- ART 2230 Illustrative Media and Techniques I 3.0
- ART 2240 Illustrative Media and Techniques II 3.0
- ART 2260 Digital Painting for Illustration I 3.0
- ART 2270 Anatomy and Figure Structure 3.0
- ART 2780 The History of Illustration 3.0

**Emphasis Elective Requirements:** 30 Credits
Students may choose a Traditional or Entertainment track, and take 30 credits in one of those two tracks.

- Traditional Track:
  - ART 3210 Illustration I (3.0)
  - ART 3220 Illustration II (3.0)
  - ART 3240 Children’s Book Illustration (3.0)
  - ART 3260 Digital Painting for Illustration II (3.0)
  - ART 327R Rendering the Human Head (3.0)
  - ART 328R Painting the Human Head (3.0)
  - ART 361R Figure Drawing (must be taken twice) (3.0)
  - ART 364R Figure Painting (3.0)
  - ART 421R Advanced Illustration (must be taken twice) (3.0)
  - ART 470R Interpreting Drawing (3.0)

- Entertainment Track:
  - ART 3210 Illustration I (3.0)
  - ART 3220 Illustration II (3.0)
  - ART 3230 3-D Computer Modeling (3.0)
  - ART 325R Flash Animation for Illustration (3.0)
  - ART 3260 Digital Painting for Illustration II (3.0)
  - ART 327R Rendering the Human Head (3.0)
  - ART 361R Figure Drawing (3.0)
  - ART 421R Advanced Illustration (3.0)
  - ART 4230 Advanced 3D Computer Modeling (3.0)
  - ART 426R Concept Design I (3.0)
  - ART 427R Concept Design II (3.0)
  - ART 470R Interpreting Drawing (3.0)

### Emphasis in Painting 51 Credits

**Emphasis Requirements:** 33 Credits

Students emphasizing a 2-D area complete the following:
- ART 1650 Watermedia I 3.0
- ART 2110 Drawing II 3.0
- ART 2620 Color Theory 3.0
- ART 2630 Painting I 3.0
- ART 2640 Painting II 3.0
- ART 2650 Watermedia II 3.0
- ART 2680 Printmaking I 3.0
- ART 2690 Printmaking II 3.0
- ART 3070 Twentieth Century Art and Architectural History 3.0

Complete 6.0 elective credits from upper-division Painting/Drawing 2D courses not previously taken.

### Emphasis in Photography 51 Credits

**Emphasis Requirements:** 18 Credits

Complete the following:
- ART 1790 Dark Room Techniques 3.0
- ART 2450 Digital Imaging I 3.0
- ART 2710 Photography II 3.0
- ART 2720 Documentary Photography 3.0
- ART 2720 Color Photography 3.0
- ART 2730 Photographic Lighting 3.0

**Emphasis Elective Requirements:** 33 Credits

Students emphasizing 3-D art complete the following (either ART 334R or ART 335R must be repeated):
- ART 1340 Sculpture I (3.0)
- ART 1350 Ceramics I 3.0
- ART 1650 Watermedia I 3.0
- ART 2340 Sculpture II 3.0
- ART 2350 Ceramics II 3.0
- ART 2630 Painting I 3.0
- ART 2680 Printmaking I 3.0
- ART 3800 Low-Fire Ceramics 3.0
- ART 3810 Ceramic Technologies 3.0
- ART 4360 Mold Making and Casting 3.0
- ART 4370 Hand Building Ceramics 3.0
- ART 3005 Ceramic History Trends and Practices 3.0

Complete 9 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 in Sculpture and Ceramics 51 Credits

**Emphasis Requirements:** 45 Credits

Students emphasizing 3-D art complete the following:
- ART 1340 Sculpture I (3.0)
- ART 1350 Ceramics I 3.0
- ART 1650 Watermedia I 3.0
- ART 2340 Sculpture II 3.0
- ART 2350 Ceramics II 3.0
- ART 2630 Painting I 3.0
- ART 2680 Printmaking I 3.0
- ART 3800 Low-Fire Ceramics 3.0
- ART 3810 Ceramic Technologies 3.0
- ART 4360 Mold Making and Casting 3.0
- ART 4370 Hand Building Ceramics 3.0
- ART 3005 Ceramic History Trends and Practices 3.0

Complete 9 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:** 6 Credits

- Two upper-division Art History classes (6 credits)

### Emphasis in Graphic Design 21 Credits

**Emphasis Requirements:** 18 Credits

- ART 1400 Graphic Computer Applications 3.0
- ART 1410 Typography and Layout I 3.0
- ART 2430 Graphic Design I 3.0

Complete 9 credits from the following:
- ART 3343 Graphic Design II (3.0)
- ART 346R Interactive Design II (3.0)
- ART 3470 Digital Painting (3.0)
- ART 443R Special Topics in Graphic Design (3.0)

### BS in Technology Management 125 Credits

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

### Art and Visual Communications 45 Credits

**Specialty Requirements:** 45 Credits

- ART 1120 2 D Design 3.0
- ART 1400 Graphic Computer Applications 3.0
- ART 1110 Drawing I 3.0

Complete an additional 36 credits from the AVC 36.0 courses.

Notes:
- No upper division Technology Management (i.e. Technology Management or Business Management) course work older than six years can be counted toward graduation.

If student chooses HST 2700 and HST 2710, the additional three hours may be used towards a social science distribu-
also provided.

PROGRAMS
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.

Reminder: an overall grade point average of 2.0 "C" or above is required for graduation.

Certificate in Automotive Technology 32 CREDITS
Discipline Core Requirements: 32 Credits
• AUT 110L Brake Systems Lab 2.0
• AUT 111L Brake Systems Lab 2.0
• AUT 112L Manual Power Trains Lab 2.0
• AUT 113L Engine Repair Lab 2.0
• AUT 116L Automotive Electrical Systems Lab 2.0
• AUT 117L Engine Electrical Systems Lab 1.0
• AUT 121L Suspension and Steering Systems Lab 2.0
• AUT 122L Suspension and Steering Systems Lab 1.0

• AUT 120L Automatic Transmissions and Transaxles Lab 2.0
• AUT 122L Automatic Transmissions and Transaxles Lab 1.0
• AUT 1230 Engine Performance 2.0
• AUT 123L Engine Performance Lab 1.0
• AUT 1260 Tech Math for Mechanics 3.0
• MGMT 2200 Business Communication 3.0
• Any approved Behavioral Science, Social, or Political Science Distribution course 2.0

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.

Diploma in Automotive Technology 56 CREDITS
Discipline Core Requirements: 56 Credits
• AUT 110L Brake Systems Lab 2.0
• AUT 111L Brake Systems Lab 2.0
• AUT 112L Manual Power Trains Lab 2.0
• AUT 113L Engine Repair Lab 2.0
• AUT 116L Automotive Electrical Systems Lab 2.0
• AUT 117L Engine Electrical Systems Lab 1.0
• AUT 120L Engine Performance Lab 1.0
• AUT 121L Suspension and Steering Systems Lab 2.0
• AUT 122L Suspension and Steering Systems Lab 1.0
• AUT 1220 Automatic Transmissions and Transaxles Lab 2.0
• AUT 122L Automatic Transmissions and Transaxles Lab 1.0
• AUT 1230 Engine Performance 2.0
• AUT 123L Engine Performance Lab 1.0
• AUT 2110 Advanced Steering Suspension and Alignment 2.0
• AUT 2120 Advanced Engine Performance 2.0
• AUT 2130 Advanced Emission Control Systems 2.0
• AUT 2140 Chassis Electrical and Electronics Systems 2.0
• AUT 2210 Advanced Braking and Control Systems 2.0
• AUT 2220 Automatic Transmissions and Electronic Controls 2.0
• AUT 2240 Heating Ventilation Air Conditioning and Refrigeration Theory 2.0
• AUT 2250 Electronic Fuel Management Systems 2.0
• AUT 2350 Electronic Diesel Fuel Management Systems 2.0
• MGMT 2200 Business Communication 3.0
• Any approved Behavioral Science, Social, or Political Science Distribution course 2.0
• AUT 1260 Tech Math for Mechanics 3.0

Complete 8 credits from the following:
• AUT 201L Automotive Service Practicum 2.0
• AUT 202L Automotive Service Practicum 2.0
• AUT 203L Automotive Service Practicum 2.0
• AUT 204L Automotive Service Practicum 2.0

Reminder: an overall grade point average of 2.0 "C" or above is required for graduation.

Certificate in Automotive Technology 32 CREDITS
Discipline Core Requirements: 32 Credits
• AUT 111L Brake Systems Lab 2.0
• AUT 111L Brake Systems Lab 2.0
• AUT 112L Manual Power Trains Lab 2.0
• AUT 113L Engine Repair Lab 2.0
• AUT 115L Engine Repair Lab 1.0
• AUT 116L Automotive Electrical Systems Lab 2.0
• AUT 116L Automotive Electrical Systems Lab 2.0
• AUT 117L Engine Electrical Systems Lab 1.0
• AUT 1210 Suspension and Steering Systems Lab 2.0
• AUT 1210 Suspension and Steering Systems Lab 1.0

• AUT 1200 Automatic Transmissions and Transaxles Lab 2.0
• AUT 122L Automatic Transmissions and Transaxles Lab 1.0
• AUT 1230 Engine Performance 2.0
• AUT 123L Engine Performance Lab 1.0
• AUT 1260 Tech Math for Mechanics 3.0
• MGMT 2200 Business Communication 3.0
• Any approved Behavioral Science, Social, or Political Science Distribution course 2.0

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.
• 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)

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

AS Pre Major in Automotive Technology 60 CREDITS

General Education Requirements: 35 Credits
• ENGL 1010 Introduction to Writing 3.0
• ENGL 2020 Intermediate Writing—Science and Technology 3.0

or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

Complete one of the following: 3.0
• MATH 1030 Quantitative Reasoning (3.0)
• MATH 1040 Introduction to Statistics (3.0)
• MATH 1050 College Algebra (4.0)

Complete one of the following: 3.0
• POLS 1000 American Heritage (3.0)
• 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 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: 16 Credits
• Choose from AUT or related 1000 level of higher courses 16.0

Elective Requirements: 9 Credits
• Choose electives from 1000 level or higher courses 9.0

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 higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements.

BS in Technology Management 125 CREDITS

The following technical area is available (see the Technology Management section of this catalog for complete degree requirement listings).

Specialization in Automotive Technology 45 Credits

Emphasis Requirements: 45 Credits
• AUT 1110 Brake Systems 2.0
• AUT 111L Brake Systems Lab 1.0
• AUT 1120 Manual Power Trains 2.0
• AUT 112L Manual Power Trains Lab 1.0
• AUT 1130 Engine Repair 2.0
• AUT 113L Engine Repair Lab 1.0
• AUT 1160 Automotive Electrical Systems 2.0
• AUT 116L Automotive Electrical Systems Lab 1.0
• AUT 1170 Engine Electrical Systems 2.0
• AUT 117L Engine Electrical Systems Lab 1.0
• AUT 1210 Suspension and Steering Systems 2.0
• AUT 121L Suspension and Steering Systems Lab 1.0
• AUT 1220 Automatic Transmissions and Transaxles 2.0
• AUT 122L Automatic Transmissions and Transaxles Lab 1.0
• AUT 1230 Engine Performance 2.0
• AUT 123L Engine Performance Lab 1.0
• AUT 2110 Advanced Steering Suspension and Alignment 2.0
• AUT 2120 Advanced Engine Performance 2.0
• AUT 2130 Advanced Emission Control Systems 2.0
• AUT 2140 Chassis Electrical and Electronics Systems 2.0
• AUT 2210 Advanced Braking and Control Systems 2.0
• AUT 2220 Automatic Transmissions and Electronic Controls 2.0
• AUT 2240 Heating Ventilation Air Conditioning and Refrigeration Theory 2.0
• AUT 2250 Electronic Fuel Management Systems 2.0
or AUT 2350 Electronic Diesel Fuel Management Systems 2.0

Complete 5 credits from the following:
• AUT 201L Automotive Service Practicum
  Engine Performance and Steering Suspension (2.0)
• AUT 202L Automotive Service Practicum
  Engine Performance and Steinng Suspension (2.0)
• AUT 203L Automotive Service Practicum
  Brake Systems and Transmision Controls (2.0)
• AUT 204L Automotive Service Practicum
  Fuel Management Systems and HVACR (2.0)
• AUT 281R Cooperative Work Experience (1.0)

Due to the technical nature of the material in AUT courses, additional reading and math instruction may be required. More information will be given during advisement.

Recommended Automotive Courses
The following course is recommended for students who would like to learn more about the operation and maintenance of their vehicle.
• AUT 1000 Survey of Automotive Technology 2.0

The following course is recommended for students with automotive engine experience wanting additional learning opportunities related to increased horsepower or for the street rod enthusiast.
• AUT 3230 High Performance Engines 3.0

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- AUT, Automotive Technology
- CRT, Collision Repair Technology
- DMT, Diesel Mechanics Technology
Aviation Science

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Department Chair: TBD  
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Director of Academic Support:  
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Cory Chamberlain  
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Peter Dittmer  
Telephone: 801-863-7826  
James Green  
Telephone: 801-863-7819  
Ryan Leick  
Telephone: 801-863-7835  
Rick Vincent  
Telephone: 801-863-7755  
Lecturer  
Brian Bastin  
Telephone: 801-863-7864  
Dustin Berlin  
Telephone: 801-863-7870  
Todd Deshler  
Telephone: 801-863-7756

Chief Pilot:  
Nathan Skene  
Telephone: 801-863-7853

Academic Support:  
Advisor:  
Erin Riching  
Telephone: 801-863-7851

Financial Aid (Aviation):  
Telephone: 801-863-7860 or 877-336-8872

Flight Dispatch:  
Telephone: 801-863-7831

Information Center:  
Telephone: 801-863-7771

Online Advisor:  
Theodore Okawa  
Telephone: 801-863-7837

Online Call Center Advisors:  
Telephone: 801-863-7830 or 888-901-7192

Web Development:  
Dustin Berlin  
Telephone: 801-863-7870

Advisory Committee: Chair, Captain James Healy; SkyWest Airlines; Captain Gary Lynn, Continental Airlines; Captain Michael Anderson, Federal Express; Scott Hansen, American Eagle; Dr. Sherwood Williams, CAVU Aviation; Development Committee Members: Dr. Jeff Kahn, Entrepreneur; Captain Blake Sudweeks, Fed Ex; Dave Adams; Classic Care, Mike Roan; Greg Soter

College of Technology and Computing  
Dean: Ernest Carey  
Office: CS 720  
Telephone: 801-863-8321

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.

FLIGHT REQUIREMENTS  
Students who plan to utilize UVU aircraft are required to enroll in and attend live ground and flight course sections.

Students enrolled in live flight courses must attend their flight class by contacting the chief pilot responsible for their course no later than three days after the start of the semester or they will 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: charter and air taxi pilot, flight instructor, aerial photography and surveying, military, bush pilot/remote re-supply, medical evacuation, fire fighting and spotting. Federal 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 Professional Pilot are qualified to be hired 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 must complete a minimum of the private, instrument, commercial pilot and multi-engine certificates issued by the Federal Aviation Administration to obtain the Bachelor of Science in Aviation Administration Degree or Tech Management, Associate in Science Aviation or Associate of Applied Science Aviation.

Aviation Administration: At Utah Valley University, the Aviation Administration Degree 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 Degree 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 operator, and airport management. The Bachelor of Science Aviation Administration does not require pilot certificates.

PROGRAMS  
Students graduating with an AAS or AS in Aviation may transfer to the Bachelor of Science in Aviation Science with an emphasis
in Professional Pilot or Aviation Administration, or the Bachelor of Science in Technology Management with an emphasis in Aviation Science, for completion of a four-year degree.

Note: An overall grade point average of 2.0 (C) or above is required for graduation. A grade of C- or better must be earned 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.

AAS in Aviation Science 63 Credits

General Education Requirements: 18 Credits
- ENGL 1010 Introduction to Writing 3.0
- MAT 1010 Intermediate Algebra 4.0
- PHIL 2050 Ethics and Values 3.0
or Any other Humanities
or HIST 1700 American Civilization (3.0)
or Any other Social Science
or Any approved Biology or Physical Science Distribution Course
or HLTH 1100 Personal Health and Wellness (recommended) 2.0

Discipline Core Requirements: 45 Credits
- AVSC 1010 Survey of Aviation Science 2.0
- AVSC 1050 Introduction to Aviation Administration 3.0
- AVSC 1100 Ground Private Pilot 4.0
- AVSC 1110 Flight Private Pilot Certification 3.0
- AVSC 1230 Flight Cross Country 2.0
- AVSC 1240 Ground Instrument Pilot 4.0
- AVSC 1250 Flight Instrument Pilot 3.0
- AVSC 1260 21st Century Avionics and Instrumentation 1.0
- AVSC 2150 Air Transportation Management 3.0
- AVSC 2160 Aviation Law 3.0
- AVSC 2300 Ground Commercial Pilot 3.0
- AVSC 2310 Flight Commercial Pilot 3.0
- AVSC 2450 Flight Multi-Engine 1.0
- AVSC 2440 Ground Multi-Engine 1.0
Complete one of the following sets of courses: 9.0
- 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 3305 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 281R/285R/481R/485R) toward the degree requirements without department approval.

AS Pre Major in Aviation Science 62 Credits

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/Social Sciences or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
Complete one of the following:
- 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:
- 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)

Distribution Courses
- Biology 3.0
- Physical Science (PHYS 1010 recommended) 3.0
- Additional Biology or Physical Science (METO 1010 recommended) 3.0
- Humanities Distribution (COMM 1010 recommended) 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science (PSY 1010 recommended) 3.0

Discipline Core Requirements: 27 Credits
- AVSC 1010 Survey of Aviation Science 2.0
- AVSC 1050 Introduction to Aviation Administration 3.0
- AVSC 1100 Ground Private Pilot 4.0
- AVSC 1110 Flight Private Pilot Certification 3.0
- AVSC 1230 Flight Cross Country 2.0
- AVSC 1240 Ground Instrument Pilot 4.0
- AVSC 1250 Flight Instrument Pilot 3.0
- AVSC 2300 Ground Commercial Pilot 3.0
- AVSC 2310 Flight Commercial Pilot 3.0

Graduation Requirements:
1. Completion of a minimum of 82 or more semester credits.
2. Overall grade point average of 2.0 (C) or above.

Emphasis in Aviation Science 120 Credits

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
- 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 (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:
- 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)

Distribution Courses
- Biology 3.0
- Physical Science (PHYS 1010 recommended) 3.0
- Additional Biology or Physical Science (METO 1010 recommended) 3.0
- Humanities Distribution (COMM 1010 recommended) 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science (PSY 1010 recommended) 3.0

Discipline Core Requirements: 33 Credits
- AVSC 1010 Survey of Aviation Science 2.0
- AVSC 1050 Introduction to Aviation Administration 3.0
- AVSC 1100 Ground Private Pilot 4.0
- AVSC 2120 Personal Finance for Aviation Professionals 3.0
- AVSC 2150 Air Transportation Management 3.0
- AVSC 2160 Aviation Law 3.0
- AVSC 3300 Air Traffic Management 3.0
- AVSC 3310 Aviation Security 3.0
- AVSC 3600 Crew Resource Management 3.0
- AVSC 4100 Global Ethical and Professional Issues in Aviation 3.0
- AVSC 4700 Safety and Professional Seminars 3.0

Emphasis: Complete one of the following:
- Aviation Administration 52.0
- Professional Pilot 52.0

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.

NOTE: If student chooses HIST 2700 and 2710, the additional hours may be used towards a social science distribution requirement.

Emphasis in Aviation Administration 52 Credits

Emphasis Requirements: 40 Credits
- ACC 3300 Financial Management and Cost Accounting Concepts 4.0
- ECON 2020 Macroeconomics 3.0
- MGMT 2200 Business Communication 3.0
- MGMT 3010 Principles of Management 3.0
- AVSC 2110 Aviation Weather Applications 3.0
- AVSC 2130 Aviation Safety 3.0
- AVSC 2160 Aviation Marketing and Customer Service 3.0
- AVSC 2750 Unmanned Aircraft Systems 3.0
- AVSC 3020 Aviation Insurance and Risk Management 3.0
- AVSC 3310 Aviation Logistics Management 3.0
- AVSC 3350 Aviation Labor and Human Resource 3.0
- AVSC 4020 Applied Aviation Finance 3.0
- AVSC 4900 Aviation Administration Capstone 3.0

Emphasis Elective Requirements: 12 Credits
Must complete 12 credits from the following elective courses, 6 credits must be upper-division:
Emphasis in Professional Pilot 52 Credits

Emphasis Requirements: 40 Credits
- AVSC 1110 Flight Private Pilot Certification 3.0
- AVSC 1230 Flight Cross Country 2.0
- AVSC 1240 Ground Instrument Pilot 4.0
- AVSC 1250 Flight Instrument Pilot 3.0
- AVSC 2300 Ground Commercial Pilot 3.0
- AVSC 2310 Flight Commercial Pilot 3.0
- 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
- AVSC 2550 Unmanned Aircraft Systems 3.0
- AVSC 3120 Airport Management 3.0
- AVSC 3210 Aircraft Incident and Emergency Management 3.0

Elective Requirements: 12 Credits
Must complete 12 credits from the following, including 6 hours of upper division.
- AVSC 2150 Air Transportation Management 3.0
- AVSC 2160 Aviation Law 3.0
- AVSC 2210 Aviation Marketing and Customer Service 3.0
- AVSC 2300 Ground Commercial Pilot 3.0
- AVSC 2440 Ground Multi-Engine 1.0
- AVSC 2450 Flight Multi-Engine 1.0
- AVSC 2470 Survey of Aviation Science 2.0
- AVSC 2490 Aviation Safety 3.0
- AVSC 2495 Ground Certified Flight Instructor 4.0
- AVSC 2496 Flight Certified Flight Instructor 1.0
- AVSC 2497 Ground CFI Instrument 1.0
- AVSC 2498 Flight CFI Instrument 1.0
- AVSC 2555 Unmanned Aircraft Systems 3.0
- AVSC 3120 Airport Management 3.0
- AVSC 3210 Aircraft Incident and Emergency Management 3.0
- AVSC 410G Global Ethical and Professional Issues in Aviation 3.0
- AVSC 475R Current Topics in Aviation 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.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- AVSC, Aviation Science

BS in Technology Management 125 Credits

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Aviation Science 45 Credits

Emphasis Requirements: 36 Credits
- AVSC 1010 Survey of Aviation Science 2.0
- AVSC 1050 Introduction to Aviation Administration 3.0
- AVSC 1100 Ground Private Pilot 4.0
- AVSC 1110 Flight Private Pilot Certification 3.0
- AVSC 1230 Flight Cross Country 2.0
- AVSC 1240 Ground Instrument Pilot 4.0
- AVSC 1250 Flight Instrument Pilot 3.0
- AVSC 1260 21st Century Avionics and Instrumentation 1.0
- AVSC 2150 Air Transportation Management 3.0
- AVSC 2160 Aviation Law 3.0
- AVSC 2210 Aviation Marketing and Customer Service 3.0
- AVSC 2300 Ground Commercial Pilot 3.0
- AVSC 2440 Ground Multi-Engine 1.0
- AVSC 2450 Flight Multi-Engine 1.0
- AVSC 2490 Ground Certified Flight Instructor 4.0
- AVSC 2495 Flight Certified Flight Instructor 1.0
- AVSC 2496 Ground CFI Instrument 1.0
- AVSC 2497 Flight CFI Instrument 1.0
- AVSC 2555 Unmanned Aircraft Systems 3.0
- AVSC 3120 Airport Management 3.0
- AVSC 3210 Aircraft Incident and Emergency Management 3.0
- AVSC 410G Global Ethical and Professional Issues in Aviation 3.0
- AVSC 475R Current Topics in Aviation 1.0
Behavioral Science

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Email: grant.jackson@uvu.edu

Students interested in the Bachelor's of Social Work (BSW)

Part-time Department Advisor: McKenna Rees
Office: LA 209
Telephone: 801-863-6381
Email: mckenna.rees@uvu.edu

Students interested in the Licensed Substance Abuse Counseling (LSAC) certificate

College of Humanities and Social Sciences
Dean: David P. Yells
Office: LA 209d
Telephone: 801-863-7435

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's of Social Work, and a certificate of proficiency in Licensed Substance Abuse Counseling (LSAC). Students enrolled in the Integrated Studies bachelor degree may also select Anthropology, Psychology, or Sociology as an emphasis. See the Integrated Studies section in this catalog for more information related to the Integrated Studies bachelor degree.

CAREER OPPORTUNITIES
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.

PROGRAMS
Please see the appropriate department advisor for an explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

AA/AS Pre Major in Behavioral Science 61 CREDITS

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences (3.0) or ENGL 2020 Intermediate Writing—Science and Technology (recommended) (3.0)

Complete one of the following: 3.0
- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (recommended) (3.0)
- MATH 1050 College Algebra (4.0)

Complete the following: 3.0
- 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: 3.0
- PHIL 2050 Ethics and Values

Behavioral Science 120 CREDITS

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences (3.0) or ENGL 2020 Intermediate Writing—Science and Technology (recommended) (3.0)

Complete one of the following: 3.0
- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete the following: 3.0
- 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)

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: 18 Credits

Complete the following four courses: 12.0
- ANTH 101G Social/Cultural Anthropology (3.0)
- SOC 1010 Introduction to Sociology (3.0)
- SOC 1020 Sociology of the Family (3.0)
- SW 1010 Introduction to Social Work and Social Welfare (3.0)

Complete any two courses from the following: 6.0
- ANTH 1020 Biological Anthropology (3.0)
- ANTH 1030 World Prehistory (3.0)
- ANTH 107G Multicultural Societies (3.0)
- ANTH 180G Introduction to American Indian Studies (3.0)
- ANTH 2030 Archeological Method and Theory (3.0)
- BESC 2705 Ethics for the Behavioral Sciences (3.0)
- PSY 1100 Human Development Life Span (3.0)
- FAMS 1150 Marriage and Relationship Skills (3.0)
- PSY 2250 Psychology of Interpersonal Relationships (3.0)
- PSY 2400 Positive Psychology (3.0)
- PSY 275R Survey of Current Topics (1.0)
- PSY 2800 Human Sexuality (3.0)
- SOC 1020 Modern Social Problems (3.0)
- SOC 2370 Gender Roles (3.0)
- SOC 275R Survey of Current Topics (1.0)
- SW 275R Survey of Current Topics (3.0)

Elective Requirements: 8 Credits

- FOR AS DEGREE: Any additional courses 6.0
  1000-level or higher.
- or FOR AA DEGREE: Complete 1010 and 1020 of the same Foreign Language 8.0

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.

Footnotes:
- 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.

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- POLS 1100 American National Government (3.0)
- PHIL 2050 Ethics and Values (3.0)
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1079 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)

Discipline Core Requirements: 19 Credits
- Complete the following seven courses:
  - ANTH 101G Social/Cultural Anthropology (3.0)
  - PSY 1010 General Psychology (completed with GE requirements) (3.0)
  - SOC 1010 Introduction to Sociology (3.0)
  - SOC 1200 Sociology of the Family (3.0)
  - SW 1010 Introduction to Social Work and Social Welfare (3.0)
  - BESC 3010 Statistics for the Behavioral Sciences (4.0)
  - BESC 3020 Research Methods for the Behavioral Sciences (3.0)

Emphasis:
- Complete one of the following:
  - Anthropology
    - 48.0
  - Family Studies
    - 48.0
  - Psychology
    - 48.0
  - Sociology
    - 48.0

Elective Requirements: 18 Credits
- Language Requirement (16 credits in the same foreign language, includes ASL)
  - Any course numbered 1000 or higher
  - 2.0

Graduation Requirements:
- 1.0
- 2.0
- 3.0
- 6.0

Footnotes:
- 1. Recommended

Emphasis in Anthropology 48 Credits
Emphasis Requirements: 42 Credits
Anthropology Core Requirement - Complete the following courses:
- ANTH 1020 Biological Anthropology (3.0)
- ANTH 1021 World Prehistory (3.0)
- ANTH 2030 Archeological Method and Theory (3.0)
- ANTH 3000 Language and Culture (3.0)

Anthropology Theory and Methods Requirement - Complete the following courses:
- ANTH 3850 Ethnographic Methods (3.0)
- ANTH 4120 History of Anthropological Thought (3.0)
- ANTH 4130 Contemporary Theory and Debates (3.0)

Anthropology Culture Requirement - Complete two of the following courses:
- ANTH 3300 Development and Rural Societies (3.0)
- ANTH 3340 Peoples and Cultures of Mexico (3.0)
- ANTH 3350 Andean Prehistory (3.0)
- ANTH 3720 Applied Anthropology (3.0)

Upper Division Anthropology Requirement - (5 courses /15 credits)
- Choose five upper-division (3000 or higher) ANTH 15.0 courses for a total of 15 credits

Emphasis Elective Requirements: 6 Credits
Behavioral Science Electives (2 courses / 6 credits).

Emphasis in Family Studies 48 Credits
Emphasis Requirements: 48 Credits
Family Studies Core Requirement - Complete the following courses:
- PSY 1100 Human Development Life Span (3.0)
- FAMS 1150 Marriage and Relationship Skills (3.0)
- PSY 2250 Psychology of Interpersonal Relationships (3.0)
- BESC 2705 Ethics for the Behavioral Sciences (3.0)
- PSY 2800 Human Sexuality (3.0)
- FAMS 3240 Relationship Enhancement Programs (3.0)
- FAMS 3250 Applied Parenting (3.0)
- LEGL 3320 Family Law (3.0)
- FAMS 4500 Family Life Education Methodology (4.0)
- FAMS 4660 Family Financial and Resource Management (3.0)
- FAMS 4670 Family Dynamics and Systems (3.0)

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:
- 9.0

Development Track - Complete the following courses:
- PSY 3200 Infant 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 - Complete the following courses:
- PSY 3408 Abnormal Psychology (3.0)
- PSY 4300 Introduction to Counseling and Psychotherapy (3.0)
- SW 4400 Introduction to Group Psychotherapy (3.0)

Internship Requirement (2 courses /150 field hours)
- FAMS 481R Senior Internship (1.0)
- 2.0

Emphasis in Psychology 48 Credits
Emphasis Requirements: 39 Credits
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)
- PSY 4150 Tests and Measurements (3.0)

Social and Diversity Requirement - Complete the following courses:
- PSY 3500 Social Psychology (3.0)
- ANTH 3700 Psychological Anthropology (3.0)
- PSY 3850 Psychology of Good and Evil (3.0)

Development Requirement - Complete the following course:
- PSY 3200 Infancy and Childhood Development (3.0)

Emphasis Elective Requirements: 21 Credits
Behavioral Science Electives (7 courses / 21 credits).

Footnotes:
- * Course must be completed before a student can matriculate.
- ** 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.
Behavioral Science

Enrollment: 120 Credits

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing--Science and Technology (recommended) (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)
- HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 American National Government (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:
- PHL 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)
- or PSY 1010 General Psychology (Social/ Behavioral Science) (3.0)

Discipline Core Requirements: 19 Credits
Complete the following seven courses:
- ANTH 101G Social/Cultural Anthropology (3.0)
- PSY 1010 General Psychology (completed with GE requirements) (3.0)
- SOC 1010 Introduction to Sociology (3.0)
- SOC 1200 Sociology of the Family (3.0)
- SW 1010 Introduction to Social Work and Social Welfare (3.0)
- BESC 3010 Statistics for the Behavioral Sciences (4.0)
- BESC 3020 Research Methods for the Behavioral Sciences (3.0)

Emphasis: Complete one of the following:
- Anthropology 48.0
- Family Studies 48.0
- Psychology 48.0
- Sociology 48.0

Elective Requirements: 18 Credits
- General Elective Requirement (18 elective credits beginning from any courses 1000 level or higher)

Graduation Requirements:
1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum UVM 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 UUV, 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.

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.

Footnotes:
- Recommended.

Emphasis in Anthropology 48 Credits

Emphasis Requirements: 42 Credits
Anthropology Core Requirement - Complete the following courses:
- ANTH 1020 Biological Anthropology (3.0)
- ANTH 1030 World Prehistory (3.0)
- ANTH 2030 Archeological Method and Theory (3.0)
- ANTH 3000 Language and Culture (3.0)

Emphasis in Psychology 48 Credits

Emphasis Requirements: 39 Credits
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 4200 Advanced Research Methods (3.0)

Complete the following course:
- PSY 3590 Social Psychology (3.0)

Emphasis in Sociology 48 Credits

Emphasis Requirements: 27 Credits
Lower Division Sociology Requirement - Complete two of the following courses:
- SOC 1020 Modern Social Problems (3.0)
- SOC 2370 Gender Roles (3.0)
- SOC 279R Survey of Current Topics (3.0)

Sociology Theory Requirement - Complete the following two courses:
- SOC 3000 Contemporary Social Theory* (3.0)
- SOC 3310 Classical Social Theory (3.0)

Upper Division Sociology Requirement - Complete four of the following courses:
- SOC 3460 Sociology of Religion (3.0)
- SOC 3430 Sociology of Education (3.0)
- SOC 3450 Environmental Sociology (3.0)
- SOC 3460 Political Sociology (3.0)
- SOC 3510 Sociology of Work and Occupations (3.0)
- SOC 3560 Sociology of Deviance (3.0)
- SOC 3700 Social Inequality (3.0)
- SOC 4400 Social Change (3.0)
- SOC 479R Current Topics in Sociology (1.0)

Advanced Research Requirement - Complete one of the following courses:
- SOC 4020 Survey Research Design (3.0)
- BESC 4040 Applied Behavioral Science Research (3.0)
- ANTH 3850 Ethnographic Methods (3.0)
### Behavioral Science

**Emphasis Elective Requirements: 21 Credits**

Behavioral Science Electives (7 courses / 21 credits). 21.0

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.

Footnotes:
* Course must be completed before a student can matriculate.

#### BSW in Social Work (Fall 2012) 120 Credits

**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: 35 Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 2010</td>
<td>3.0</td>
</tr>
<tr>
<td>or ENGL 2020</td>
<td>3.0</td>
</tr>
<tr>
<td>Intermediate Writing—Humanities/Social Sciences</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>3.0</td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 1000 American History</td>
<td>3.0</td>
</tr>
<tr>
<td>or POLS 1100 American National Government</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 1000 American Civilization</td>
<td>3.0</td>
</tr>
<tr>
<td>or HIST 1740 US Economic History</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 2700 US History since 1877</td>
<td>3.0</td>
</tr>
<tr>
<td>and HIST 2710 US History since 1877</td>
<td>3.0</td>
</tr>
<tr>
<td>Complete the following:</td>
<td>2.0</td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3.0</td>
</tr>
<tr>
<td>HLTH 1100 Personal Health and Wellness</td>
<td>2.0</td>
</tr>
<tr>
<td>or PES 1070 Fitness for Life</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Distribution Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
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</tr>
<tr>
<td>Physical Science</td>
<td>3.0</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3.0</td>
</tr>
<tr>
<td>Humanities</td>
<td>3.0</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>3.0</td>
</tr>
<tr>
<td>PSY 1010 General Psychology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements: 63 Credits**

Social Work Core - Complete the following courses: (48 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BESC 3010 Statistics for the Behavioral Sciences</td>
<td>4.0</td>
</tr>
<tr>
<td>BESC 3020 Research Methods for the Behavioral Sciences</td>
<td>3.0</td>
</tr>
<tr>
<td>BESC 3100 Career and Graduate School Preparation for Behavioral Science Majors</td>
<td>3.0</td>
</tr>
<tr>
<td>BESC 3800 Interviewing Skills</td>
<td>4.0</td>
</tr>
<tr>
<td>SW 1010 Introduction to Social Work</td>
<td>3.0</td>
</tr>
<tr>
<td>SW 3000 Social Work Practice I</td>
<td>3.0</td>
</tr>
<tr>
<td>SW 3100 Social Work Practice II</td>
<td>3.0</td>
</tr>
<tr>
<td>SW 3200 Social Work Practice III</td>
<td>3.0</td>
</tr>
<tr>
<td>SW 3300 Human Behavior and the Social Environment</td>
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</tr>
<tr>
<td>SW 3400 Human Behavior and the Social Environment II</td>
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</tr>
<tr>
<td>SW 3500 Social Welfare Policies and Services</td>
<td>3.0</td>
</tr>
<tr>
<td>SW 3600 Ethics and Values in Social Work Practice</td>
<td>3.0</td>
</tr>
<tr>
<td>SW 371G Diversity Issues in Social Work Practice</td>
<td>3.0</td>
</tr>
<tr>
<td>SW 4800 Integrated Seminar I</td>
<td>2.0</td>
</tr>
<tr>
<td>SW 481R Field Placement (1.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>SW 485R Field Placement (1.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>SW 485L Integrated Seminar II</td>
<td>2.0</td>
</tr>
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</table>

Social Work Electives - Complete four of the following courses: (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BESC 3410 Fundamentals of Mediation and Negotiation</td>
<td>3.0</td>
</tr>
<tr>
<td>BESC 4050 Clinical Research</td>
<td>3.0</td>
</tr>
<tr>
<td>FAMS 3250 Applied Parenting</td>
<td>3.0</td>
</tr>
<tr>
<td>FAMS 4680 Family Financial and Resource Management</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### Emphasis in Psychology 19 Credits

Prerequisite - Complete the following course: • PSY 1010 General Psychology (3.0)

Complete the following courses:

- ANTH 1020 Biological Anthropology (3.0)
- BESC 3010 Statistics for the Behavioral Sciences (3.0)
- ANTH 4120 History of Anthropological Thought (3.0) or ANTH 4130 Contemporary Theory and Debates (3.0)
- ANTH 3850 Ethnographic Methods (3.0)

Complete 6 additional credits in Anthropology. 6.0 credits must be upper division.

Footnote:
** ANTH 101G is an introductory course and pre-requisite which may not be used in the 19 hours required for these Integrated Studies Emphases.

#### BA/BS in Integrated Studies 123 Credits

**Emphasis in Sociology 19 Credits**

Prerequisite - Complete the following course: • SOC 1010 Introduction to Sociology (3.0)

Complete the following:

- SOC 3000 Contemporary Social Theory (3.0)
- or SOC 3310 Classical Social Theory (3.0)
- BESC 3010 Statistics for the Behavioral Sciences (3.0)
- BESC 3020 Research Methods for the Behavioral Sciences (3.0)

Advanced Research - Complete one of the following courses:

- SOC 4020 Survey Research Design (3.0)
- BESC 4040 Applied Behavioral Science Research (3.0)

Complete 6 additional credits in Sociology (SOC). 6.0 credits may be lower or upper division.

Footnotes:
** SOC 1010 is an introductory course and pre-requisite which may not be used in the 19 hours required for these Integrated Studies Emphases.

### Certification in Licensed Substance Abuse Counseling 30 Credits

**Matriculation Requirements:** 6 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>PSY 1010 General Psychology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements:** 24 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BESC 4705 Substance Abuse Applied Skills and Ethics</td>
<td>2.0</td>
</tr>
<tr>
<td>BESC 481R Senior Internship</td>
<td>1.0</td>
</tr>
<tr>
<td>PSY 3430 Psychopharmacology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSY 3470 Dynamics of Addiction</td>
<td>3.0</td>
</tr>
<tr>
<td>PSY 4300 Introduction to Counseling and Psychotherapy</td>
<td>3.0</td>
</tr>
<tr>
<td>SW 4400 Introduction to Group Psychotherapy</td>
<td>3.0</td>
</tr>
</tbody>
</table>

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- ANTH, Anthropology
- BESC, Behavioral Science
- FAMS, Family Studies
- PSY, Psychology
- SOC, Sociology
- SW, Social Work

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Catalog 2011-2012 Utah Valley University
Anatomy and Physiology Lab Manager:
Don Homan
Herbarium Curator: Jason Alexander
Biology Lab Manager: Melissa Monk
Biotechnology Lab Manager: James Bradshaw
Botany Lab Manager; Allison Searle
Microbiology Lab Manager: Ken Slater

College of Science and Health
Dean: Sam Rushforth
Office: PS 201a
Telephone: 801-863-8980

The UVU Biology program offers a variety of courses that investigate the living world, including courses in biology, biotechnology, botany, ecology, evolution, genetics, human anatomy, human physiology, conservation biology, microbiology, zoology and others. A course of study may be designed to provide breadth in the life sciences or to prepare students for a specific area of biology.

Many courses in these programs fill general education requirements in the biology distribution area (see Graduation Requirements section of the UVU catalog).

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
Seven 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.

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 advisor for more information.

PROGRAMS

AA Pre Major in Biology 60 CREDITS

General Education Requirements: 42 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
- OR ENGL 2020 Intermediate Writing--Science and Technology (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 3.0
  - HLTH 1100 Personal Health and Wellness (2.0)
  - or PES 1097 Fitness for Life 2.0

Distribution Courses
- BIOL 1610 College Biology I 4.0
- and BIOL 1615 College Biology I Laboratory 1.0
- and CHEM 1210 Principles of Chemistry I 4.0
- and CHEM 1215 Principles of Chemistry I Laboratory 1.0
- and CHEM 1220 Principles of Chemistry II 4.0
- and CHEM 1225 Principles of Chemistry II Laboratory 1.0
- and BIOL 1050 American Heritage (3.0)
- and BIOL 1050 American National Government (3.0)

Discipline Core Requirements: 10 Credits
- Complete the following:
  - BIOL 1620 College Biology II 3.0
  - and BIOL 1625 College Biology II Laboratory 1.0
  - 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.

Elective Requirements: 8 Credits

- Same Foreign Language. 8.0

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.

AS Pre Major in Biology 60 CREDITS

General Education Requirements: 42 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- MATH 1050 College Algebra 4.0
- Complete one of the following:
  - HIST 2700 US History to 1877 (3.0)
### Biology

**American National Government** 3.0  
**Fitness for Life** 2.0  
**Other**

### BS in Biology

**Total Credits: 123.5**

#### Matriculation Requirements:
- **BIOL 1610** with C- or higher and approval of Biology Department advisor.

#### 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>3.0</td>
</tr>
<tr>
<td>ENGL 2020</td>
<td>Intermediate Writing—Science and Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4.0</td>
</tr>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3.0</td>
</tr>
<tr>
<td>HLT1 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>2.0</td>
</tr>
</tbody>
</table>

#### Distribution Courses

- **BIOL 1610** College Biology I 4.0  
- **CHEM 1005** Principles of Chemistry I 4.0  
- **CHEM 1006** Principles of Chemistry II 4.0  
- **CHEM 1215** Principles of Chemistry I 4.0  
- **CHEM 1225** Principles of Chemistry II 4.0  
- **CHEM 2310** Organic Chemistry I 4.0  
- **CHEM 2315** Organic Chemistry II 4.0  
- **CHEM 2320** Organic Chemistry II 4.0  
- **CHEM 2325** Organic Chemistry Laboratory 4.0  
- **CHEM 2335** Organic Chemistry Laboratory II 4.0  

### Elective Requirements: 33 Credits

- Choose 4 credits from any MICR electives.
- Choose 3 credits from any BOT electives.
- Choose 3 credits from any ZOOL electives (except ZOOL 1090).
- Additional credits to meet credit and upper-division 23.0 requirements.

#### 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 credits must be earned at UVU or satellite sites, with 10 hours earned during the last 45 hours.
4. A minimum of 40 credits must be upper-division (numbered 3000 and above).
5. A minimum of 40 credits must be in the major (BIOL, BOT, MICR, or ZOOL prefixes), 30 of which must be upper-division. A minimum of nine Department credits must be taken at UVU.
6. Except for 496R Special Topics courses, a cumulative total of 9 credits in any combination of upper division Departmental courses with an "R" designation may count toward graduation.
7. Complete Biology Department 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 2.5 in biology department courses.
9. Complete the appropriate application for graduation form.

### BS in Biotechnology

**Total Credits: 122.5**

#### General Education Requirements: 39 Credits

- **ENGL 1010** Introduction to Writing 3.0  
- **ENGL 2020** Intermediate Writing—Science and Technology 3.0  
- **MATH 1050** College Algebra 4.0  
- **PHIL 2050** Ethics and Values 3.0  
- **HLT1 1100** Personal Health and Wellness (2.0)  
- or PES 1097 Fitness for Life 2.0  

#### Distribution Courses

- **BIOL 1610** College Biology I 4.0  
- **CHEM 1110** Elementary Chemistry for the Health Sciences 4.0  
- **CHEM 1120** Elementary Organic Bio-Chemistry 4.0  
- **CHEM 2310** Organic Chemistry I 4.0  
- **CHEM 2315** Organic Chemistry II 4.0  
- **CHEM 2320** Organic Chemistry II 4.0  
- **CHEM 2325** Organic Chemistry Laboratory 4.0  
- **CHEM 2335** Organic Chemistry Laboratory II 4.0  

#### Discipline Core Requirements: 86.5 Credits

- **BIOL 1610** College Biology I Laboratory 1.0  
- **BIOL 1620** College Biology II 3.0  
- **BIOL 1625** College Biology II Laboratory 1.0  
- **MICR 2060** Microbiology for Health Professions 3.0  
- **MICR 3450** General Microbiology (3.0)  
- **MICR 3455** General Microbiology Laboratory (1.0)  

### Education Courses

- **EDUC 3050** Educational Psychology 3.0  
- **EDUC 3055** Foundations of American Education 2.0  
- **EDUC 3250** Instructional Media 2.0  
- **EDUC 4250** Classroom Management I 2.0  
- **EDUC 4255** Classroom Management II 2.0  
- **EDUC 4440** Content Area Reading and Writing 3.0  
- **EDUC 4445** Multicultural Instruction ESL 3.0  
- **EDUC 4550** Secondary Curriculum Instruction and Assessment 3.0  
- **EDUC 4850** Student Teaching—Secondary (4.0) 10.0  

### 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 and 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3405</td>
<td>Cell Biology Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>BIOL 3500</td>
<td>Genetics</td>
<td>3.0</td>
</tr>
<tr>
<td>BIOL 3505</td>
<td>Genetics Tutorial</td>
<td>0.5</td>
</tr>
<tr>
<td>BIOL 3515</td>
<td>Advanced Genetics</td>
<td>1.0</td>
</tr>
<tr>
<td>BIOL 3550</td>
<td>Molecular Biology</td>
<td>3.0</td>
</tr>
<tr>
<td>BIOL 3555</td>
<td>Experiments in Molecular Biology</td>
<td>1.0</td>
</tr>
<tr>
<td>BIOL 3600</td>
<td>Cell Biology</td>
<td>3.0</td>
</tr>
<tr>
<td>BIOL 3605</td>
<td>Biochemistry Laboratory</td>
<td>1.0</td>
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<tr>
<td>BIOL 4550</td>
<td>Molecular Evolution and Biointormatics</td>
<td>3.0</td>
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<tr>
<td>BTEC 481R</td>
<td>Biotechnology Internship (1.0)</td>
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<td>Biotechnology Internship (1.0)</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM 3025</td>
<td>Complete discipline core courses with a grade of &quot;C-&quot;</td>
<td></td>
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<tr>
<td>BOT 4605</td>
<td>General Ecology</td>
<td>3.0</td>
</tr>
<tr>
<td>BOT 4200</td>
<td>Molecular Biology</td>
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<tr>
<td>BIOL 3500</td>
<td>College Physics I</td>
<td>1.0</td>
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<td>PHYS 2015</td>
<td>College Physics I Lab</td>
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</tr>
<tr>
<td>PHYS 2020</td>
<td>College Physics II</td>
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</tr>
<tr>
<td>PHYS 2025</td>
<td>College Physics II Lab</td>
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<tr>
<td>or GEOG 1300</td>
<td>Survey of World Geography (3.0)</td>
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<tr>
<td>and GEOG 3630</td>
<td>Introduction to Geographic Information Systems (4.0)</td>
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<td>CHEM 1215</td>
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<tr>
<td>CHEM 1225</td>
<td>Principles of Chemistry II</td>
<td>1.0</td>
</tr>
<tr>
<td>BIOL 2310</td>
<td>Organic Chemistry I</td>
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<td>Organic Chemistry I Laboratory</td>
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<tr>
<td>BIOL 2320</td>
<td>Organic Chemistry I Laboratory</td>
<td>1.0</td>
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<tr>
<td>BTEC 1010</td>
<td>Fundamentals of Biotechnology Survey</td>
<td>3.0</td>
</tr>
<tr>
<td>BTEC 2010</td>
<td>DNA Manipulation and Analysis</td>
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<tr>
<td>BTEC 2020</td>
<td>Protein Purification and Analysis</td>
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<tr>
<td>BTEC 2030</td>
<td>Cell Culture Techniques</td>
<td>2.0</td>
</tr>
<tr>
<td>BTEC 2040</td>
<td>Advanced Nucleic Acid Laboratory</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Elective Requirements:** 10 Credits
- Additional credits to meet upper-division requirements.

**Graduation Requirements:**
1. Complete the required minimum credit hours.
2. Complete one of the following:
   - At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
   - A minimum of 40 credits must be upper-division (numbered 3000 or above).
   - Complete core courses with a grade of "C-" or higher in each course.
   - Achieve a minimum overall GPA of 2.0 with a minimum GPA of 2.25 in core courses.

**BS in Botany:** 122.5 Credits

**General Education Requirements:** 39 Credits
- ENGL 1010 Introduction to Writing                   | 3.0     |
- ENGL 2020 Intermediate Writing—Science and Technology | 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 Government (3.0)

**Complete the following:**
- PHIL 2050 Ethics and Values                          | 3.0     |
- HLTH 1100 Personal Health and Wellness (2.0)        | 3.0     |
- PES 1097 Fitness for Life                           | 2.0     |

**Distribution Courses**
- BIOL 1610 College Biology I                         | 4.0     |
- CHEM 1210 Principles of Chemistry I                 | 4.0     |
- CHEM 1220 Principles of Chemistry II                | 4.0     |
- Humanities Distribution                             | 3.0     |
- Fine Arts Distribution                              | 3.0     |
- Social/Behavioral Science                           | 3.0     |

**BS in Biology:** 122.5 Credits

**General Education Requirements:** 39 Credits
- ENGL 1010 Introduction to Writing                   | 3.0     |
- ENGL 2020 Intermediate Writing—Science and Technology | 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 Government (3.0)

**Complete the following:**
- PHIL 2050 Ethics and Values                          | 3.0     |
- HLTH 1100 Personal Health and Wellness (2.0)        | 3.0     |
- PES 1097 Fitness for Life                           | 2.0     |

**Distribution Courses**
- BIOL 1610 College Biology I                         | 4.0     |
- CHEM 1210 Principles of Chemistry I                 | 4.0     |
- CHEM 1220 Principles of Chemistry II                | 4.0     |
- Humanities Distribution                             | 3.0     |
- Fine Arts Distribution                              | 3.0     |
- Social/Behavioral Science                           | 3.0     |

**Minor in Biology:** 21 Credits

**Matriculation Requirements:**
- Admitted to a bachelor degree program at UVU.

**Discipline Core Requirements:** 21 Credits
- Complete the following with a grade of C- or better:
  - 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     |
  - Complete 12 upper-division credits from any BIOL 12.0
  - BOT, MICR, or ZOOL courses with a grade of C- or higher in each.
  - BIOL 495R, BIOL 496R, ZOOL 4098 cannot be used to meet this requirement.

**BA/BS in Integrated Studies:** 123 Credits

**The following Integrated Studies Emphasis is available**

**Emphasis in Biology:** 18 Credits

**Emphasis Requirements:** 18 Credits

**Biology Emphasis**
- Prerequisites (see Advisor):
  - BIOL 1610 College Biology I (4.0)
  - BIOL 1615 College Biology I Laboratory (1.0)
Certificate in Building Inspection Technology 29 Credits

Discipline Core Requirements: 30 Credits

- COMM 2110 Interpersonal Communication 3.0
- BIT 1010 Building Codes 3.0
- BIT 1170 Field Lab—Building Codes 1.0
- BIT 1240 Plumbing Codes 3.0
- BIT 1330 Mechanical Codes 3.0
- BIT 1340 Electrical Codes 3.0
- BIT 1380 Ride-Along Lab 1.0
- BCCM 1110 Principles of Residential Framing 3.0
- BCCM 1120 Blueprint Reading 2.0
- BCCM 1150 Building Construction Safety 1.0
- BCCM 1240 Roofs Stairs and Specialty Framing 3.0
- ESFO 2030 Fire Inspector I 3.0

AAS in Building Inspection Technology 64 Credits

General Education Requirements: 16 Credits

- BCCM 1150 Building Construction Safety 1.0
- COMM 1020 Public Speaking 3.0
- COMM 2110 Interpersonal Communication 3.0
- EGDT 1600 Technical Math—Algebra* 3.0
or MATH 1040 Introduction to Statistics (required for BS in Technology Management) (3.0) *
- ENGL 1010 Introduction to Writing 3.0
- PHSC 1000 Survey of Physical Science 3.0
or MATH 1040 Introduction to Statistics (required for Biology/Physical Science requirement)

Discipline Core Requirements: 48 Credits

- BIT 1010 Building Codes 3.0
- BIT 1170 Field Lab—Building Codes 1.0
- BIT 1230 Plan Review 3.0
- BIT 1240 Plumbing Codes 3.0
- BIT 1330 Mechanical Codes (Recommended) 3.0
or CMGT 3020 Analysis and Design of Construction Systems (3.0)
- BIT 1340 Electrical Codes 3.0
- BIT 1380 Ride-Along Lab 1.0
- CMGT 1160 Building Information Modeling (Recommended) 3.0
or EGDT 1020 3D Architectural Modeling (3.0)
or EGDT 1400 Surveying 4.0
or ESFO 2030 Fire Inspector I 3.0
- DGM 2010 Business Computer Proficiency 3.0
- DGM 2360 Spreadsheet Applications (3.0)
or DGM 2370 Database Applications (3.0)
or CMGT 1010 Introduction to Construction Management 3.0
- CMGT 1020 Construction Materials and Methods I 3.0
or CMGT 3010 Construction Materials Testing 3.0
- CMGT 1150 Construction Safety 2.0
- CMGT 1190 Concrete and Framing Lab 3.0
or CMGT 1220 Finishing Lab (3.0)
or BCCM 281R Cooperative Work Experience (2 credits) (1.0)
and BCCM 285R Cooperative Correlated Class (1.0)
- CMGT 2010 Construction Materials and Methods II 3.0
- CMGT 399R Student Professional Organization 1
(Must be taken twice for 1 credit) (0.5)

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.

Footnotes:
* Must be completed with a grade of C- or better.

Certificate in Building Inspection Technology 29 Credits

Discipline Core Requirements: 30 Credits

- COMM 2110 Interpersonal Communication 3.0
- BIT 1010 Building Codes 3.0
- BIT 1170 Field Lab—Building Codes 1.0
- BIT 1240 Plumbing Codes 3.0
- BIT 1330 Mechanical Codes 3.0
- BIT 1340 Electrical Codes 3.0
- BIT 1380 Ride-Along Lab 1.0
- BCCM 1110 Principles of Residential Framing 3.0
- BCCM 1120 Blueprint Reading 2.0
- BCCM 1150 Building Construction Safety 1.0
- BCCM 1240 Roofs Stairs and Specialty Framing 3.0
- ESFO 2030 Fire Inspector I 3.0

AAS in Building Inspection Technology 64 Credits

General Education Requirements: 16 Credits

- BCCM 1150 Building Construction Safety 1.0
- COMM 1020 Public Speaking 3.0
- COMM 2110 Interpersonal Communication 3.0
- EGDT 1600 Technical Math—Algebra* 3.0
or MATH 1040 Introduction to Statistics (required for BS in Technology Management) (3.0) *
- ENGL 1010 Introduction to Writing 3.0
- PHSC 1000 Survey of Physical Science 3.0
or MATH 1040 Introduction to Statistics (required for Biology/Physical Science requirement)

Discipline Core Requirements: 48 Credits

- BIT 1010 Building Codes 3.0
- BIT 1170 Field Lab—Building Codes 1.0
- BIT 1230 Plan Review 3.0
- BIT 1240 Plumbing Codes 3.0
- BIT 1330 Mechanical Codes (Recommended) 3.0
or CMGT 3020 Analysis and Design of Construction Systems (3.0)
- BIT 1340 Electrical Codes 3.0
- BIT 1380 Ride-Along Lab 1.0
- CMGT 1160 Building Information Modeling (Recommended) 3.0
or EGDT 1020 3D Architectural Modeling (3.0)
or EGDT 1400 Surveying 4.0
or ESFO 2030 Fire Inspector I 3.0
- DGM 2010 Business Computer Proficiency 3.0
- DGM 2360 Spreadsheet Applications (3.0)
or DGM 2370 Database Applications (3.0)
or CMGT 1010 Introduction to Construction Management 3.0
- CMGT 1020 Construction Materials and Methods I 3.0
or CMGT 3010 Construction Materials Testing 3.0
- CMGT 1150 Construction Safety 2.0
- CMGT 1190 Concrete and Framing Lab 3.0
or CMGT 1220 Finishing Lab (3.0)
or BCCM 281R Cooperative Work Experience (2 credits) (1.0)
and BCCM 285R Cooperative Correlated Class (1.0)
- CMGT 2010 Construction Materials and Methods II 3.0
- CMGT 399R Student Professional Organization 1
(Must be taken twice for 1 credit) (0.5)

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.

Footnotes:
* Must be completed with a grade of C- or better.
Business/Marketing Education

Business/Marketing Education Director: Cynthia Krebs
Office: CS 526a
Telephone: 801-863-8281
Email: cynthia.krebs@uvu.edu

Faculty:
Professor Cynthia Krebs
Emeritus Professor Kathleen Richards

Administrative Support: Celena Patten
Office: CS 526
Telephone: 801-863-8485
E-mail: PATTENCE@uvu.edu

Advisors:
Joyce Porter
Office: CS 635h
Telephone: 801-863-7125
E-mail: Joyce.porter@uvu.edu

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

## PROGRAMS
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 Digital Media Department and the School of Education. The Business/Marketing Education curriculum prepares students to teach information technology, multimedia, business, and marketing courses in the secondary schools. Secondary education teaching minors are also available in basic business core, business information technology, digital media, and marketing.

### BS in Business/Marketing Education

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 82 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• EDSC 3000 Educational Psychology 3.0</td>
</tr>
<tr>
<td>• EDSC 3050 Foundations of American Education 2.0</td>
</tr>
<tr>
<td>• EDSC 3410 Exceptional Student 3.0</td>
</tr>
<tr>
<td>• EDSC 4200 Classroom Management I 2.0</td>
</tr>
<tr>
<td>• EDSC 4250 Classroom Management II 2.0</td>
</tr>
<tr>
<td>• EDSC 4440 Content Area Reading and Writing 3.0</td>
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<tr>
<td>• EDSC 445G Multicultural Instruction ESL 3.0</td>
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<tr>
<td>• EDSC 4550 Secondary Curriculum Instruction and Assessment 3.0</td>
</tr>
<tr>
<td>• EDSC 4850 Student Teaching--Secondary (4.0) 10.0</td>
</tr>
<tr>
<td>• BMED 4200 Methods of Teaching Digital Technology 3.0</td>
</tr>
<tr>
<td>• BMED 4250 Methods of Teaching Business and Marketing 3.0</td>
</tr>
<tr>
<td>• BMED 4900 Business/Marketing Student Teaching Seminar 2.0</td>
</tr>
<tr>
<td>• DGM 1010 Basic Computer Applications 2.0</td>
</tr>
<tr>
<td>• DGM 1063 Image Editing 2.0</td>
</tr>
<tr>
<td>• DGM 1110 Digital Media Essentials I 4.0</td>
</tr>
<tr>
<td>• DGM 2120 Web Essentials 3.0</td>
</tr>
<tr>
<td>• DGM 2360 Spreadsheet Applications 3.0</td>
</tr>
<tr>
<td>• DGM 2370 Database Applications 3.0</td>
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<tr>
<td>• DGM 3820 Presentation Applications 3.0</td>
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<tr>
<td>• DGM 3850 Desktop Publishing Skills 3.0</td>
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<tr>
<td>• ACC 2010 Financial Accounting 3.0</td>
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<tr>
<td>• LEGL 3000 Business Law 3.0</td>
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<tr>
<td>• ECON 2010 Microeconomics 3.0</td>
</tr>
<tr>
<td>• MGMT 2200 Business Communication 3.0</td>
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<tr>
<td>• MGMT 3000 Organizational Behavior 3.0</td>
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<tr>
<td>• MKTG 3600 Principles of Marketing 3.0</td>
</tr>
<tr>
<td>• FIN 1060 Personal Finance 3.0</td>
</tr>
</tbody>
</table>

### Elective Requirements: 6 Credits
Complete at least 6 credits from the following:

- MKTG 3630 Services Marketing (3.0)
- MKTG 3650 Selling and Sales Management (3.0)
- MKTG 3650 Digital Marketing (3.0)
- MKTG 3670 Advertising and Promotion (3.0)

### Graduation Requirements:
1. Completion of the 124 semester credit hours required in the degree with at least 40 credit hours in upper-division courses.
2. Overall GPA of 2.75 or above with no grade lower than a "C-" in ACC, ECON, FIN, LEGL, MGMT, & MKTG courses. No grade lower than a "B-" in EDSC, EDSP & BMED 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.

### Emphasis in Business Information Technology

#### Emphasis Requirements: 19 Credits
- DGM 1110 Digital Media Essentials I 4.0
- DGM 2120 Web Essentials 3.0
- DGM 2360 Spreadsheet Applications 3.0
- DGM 2370 Database Applications 3.0
- DGM 3820 Presentation Applications 3.0
- DGM 3850 Desktop Publishing Skills 3.0

#### Elective Requirements: 6 Credits
Complete a minimum of 6 credits from the following:

- DGM 1063 Image Editing (2.0)
- DGM 1063 Flash Animation (2.0)
- DGM 1063 Computerized Accounting (2.0)

### Emphasis in Digital Media

#### Emphasis Requirements: 13 Credits
- BMED 4200 Methods of Teaching Digital Technology 3.0
- DGM 1110 Digital Media Essentials I 4.0
- DGM 1820 Survey of Animation 3.0
- DGM 2120 Web Essentials 3.0

#### Elective Requirements: 6 Credits
Complete 6 credits from the following:

- DGM 2240 Interaction Design (3.0)
- DGM 2250 Principles of Digital Design (3.0)
- DGM 2320 Digital Photography and Compositing (1.0)

### Emphasis in Marketing

#### Emphasis Requirements: 12 Credits
- BMED 4250 Methods of Teaching Business and Marketing 3.0
- MKTG 3630 Principles of Marketing 3.0
- MKTG 3650 Selling and Sales Management 3.0
- MKTG 3660 Digital Marketing 3.0

#### Elective Requirements: 6 Credits
Complete 6 credits from the following:

- MKTG 3220 Retail Management (3.0)
- MKTG 3350 International Marketing (3.0)
- MKTG 3620 Consumer Behavior (3.0)
- MKTG 3670 Advertising and Promotion (3.0)
Business/Marketing Education

- MGMT 3170  Entrepreneurship (3.0)
- HM 1010  Introduction to Hospitality Industry (3.0)
- HM 3710  Marketing of Hospitality Services (3.0)

For Economics Endorsement:
- ECON 2020  Macroeconomics (3.0)
- ECON 2010  Microeconomics (3.0)

Footnotes:
* Courses requiring field experience

**Minor in Business Information Technology**  
24 Credits

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements:  15 Credits
- DGM 2120  Web Essentials 3.0
- DGM 2360  Spreadsheet Applications 3.0
- DGM 2370  Database Applications 3.0
- DGM 3820  Presentation Applications 3.0
- DGM 3850  Desktop Publishing Skills 3.0

Elective Requirements:  9 Credits
Select 9 credits from the following: 9.0
- DGM 1063  Image Editing (2.0)
- DGM 1110  Digital Media Essentials I (4.0)
- DGM 3220  Digital Media Project Management (3.0)
- DGM 3870  Graphics Applications (3.0)
- DGM 4350  Information Workflow Management (3.0)

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.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- BMED, Business/Marketing Education
- COMP, Computing
- DGM, Digital Media
Certificate in Cabinetry and Architectural Woodwork  29 Credits
Discipline Core Requirements:  29 Credits
• ACC 1150 Fundamentals of Business Math  3.0
• CAW 1130 Residential Cabinetry  4.0
• CAW 1140 Millworking and Safety Shop I  5.0
• CAW 1150 Design Drafting and Billing  3.0
• CAW 1170 Finish Technology  2.0
• CAW 1210 Cabinetmaking Materials and Hardware  1.0
• CAW 1240 Millworking Shop II  5.0
• CAW 2310 Cabinet Math  2.0
• CAW 299R Skills USA  1.0
• EGDT 1040 Computer Aided Drafting--AutoCAD  3.0
Graduation Requirements:
1. Completion of a minimum of 29 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.

Diploma in Cabinetry and Architectural Woodwork  51 Credits
Discipline Core Requirements:  51 Credits
• CAW 1130 Residential Cabinetry  4.0
• CAW 1140 Millworking and Safety Shop I  5.0
• CAW 1150 Design Drafting and Billing  3.0
• CAW 1170 Finish Technology  2.0
• CAW 1210 Cabinetmaking Materials and Hardware  1.0
• CAW 1240 Millworking Shop II  5.0
• CAW 2310 Cabinet Math  2.0
• CAW 2320 Counter-top Technology  3.0
• CAW 2330 Counter-top Design & Billing  3.0
• CAW 2340 Millworking Shop III  5.0
• CAW 2430 Commercial Cabinetry Technology  4.0
• CAW 2440 Millworking Shop IV  5.0
• CAW 2450 Machine Maintenance and Upkeep  2.0
• COMM 2110 Interpersonal Communication  3.0
• EGDT 1040 Computer Aided Drafting--AutoCAD  3.0

The following course is recommended, but optional:
• CAW 299R Skills USA (1.0)

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.

AAS in Cabinetry and Architectural Woodwork  66 Credits
General Education Requirements:  16 Credits
ENGLISH
• ENGL 1010 Introduction to Writing  3.0
MATHMATICS
• ACC 1150 Fundamentals of Business Math  3.0
or ACC 3000 Financial Management and Cost Accounting Concepts (4.0)
HUMANITIES/FINE ARTS/FORIEGN LANGUAGE
• Any approved Humanities, Fine Arts, or Foreign Language Distribution Course  3.0
SOLIC AND BEHARIAL SCIENCE
• Any approved Social or Behavioral Science Distribution course  3.0
BIOLOGY OR PHYSICAL SCIENCE
• Any approved Biology or Physical Science Distribution Course  3.0
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
• Any approved Physical Education, Health, Safety or Environment Course  1.0
Discipline Core Requirements:  50 Credits
• CAW 1130 Residential Cabinetry  4.0
• CAW 1140 Millworking and Safety Shop I  5.0
• CAW 1150 Design Drafting and Billing  3.0
• CAW 1170 Finish Technology  2.0
• CAW 1210 Cabinetmaking Materials and Hardware  1.0
• CAW 1240 Millworking Shop II  5.0
• CAW 1250 Drafting and Computer Applications  4.0
• CAW 2300 Counter-top Technology  3.0
• CAW 2310 Cabinet Math  2.0
• CAW 2340 Millworking Shop III  5.0
• CAW 2430 Commercial Cabinetry Technology  4.0
• CAW 2440 Millworking Shop IV  5.0
• CAW 2450 Machine Maintenance and Upkeep  2.0
• CAW 299R Skills USA (1 credit, repeat 2 times) (1.0)
• EGDT 1040 Computer Aided Drafting--AutoCAD  3.0

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.
5. Complete all core requirements with a minimum grade of "C" or better.

AS Pre Major in Cabinetry and Architectural Woodwork  63 Credits
General Education Requirements:  35 Credits
• ENGL 1010 Introduction to Writing  3.0
• ENGL 2010 Intermediate Writing--Humanities/ Social Sciences or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
• MATH 1030 Quantitative Reasoning--Math (recommended for Humanities or Arts majors) (3.0)
• MATH 1040 Introduction to Statistics--Math (recommended for Social Science majors) (3.0)
• MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)
• MATH 2700 US History since 1877 (3.0) and MATH 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)
• 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:  16 Credits
• Choose from CAW courses 1000 level or higher  12.0
• Choose from courses 1000 level or higher  12.0
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.

BS in Technology Management  125 Credits
The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)
Specialization in Cabinetry and Architectural Woodwork  45 Credits
Emphasis Requirements:  45 Credits
Complete 45 credits from the following:
• CAW 1130 Residential Cabinetry (4.0)
• CAW 1140 Millworking and Safety Shop I (5.0)
• CAW 1150 Design Drafting and Billing (3.0)
Cabinetry & Architectural Woodwork

- CAW 1170 Finish Technology (2.0)
- CAW 1210 Cabinetmaking Materials and Hardware (1.0)
- CAW 1240 Millworking Shop II (5.0)
- CAW 1250 Drafting and Computer Applications for Cabinetmakers (4.0)
- CAW 2300 Counter-top Technology (3.0)
- CAW 2310 Cabinetry Math (2.0)
- CAW 2340 Millworking Shop III (5.0)
- CAW 2440 Millworking Shop IV (5.0)
- CAW 2450 Machine Maintenance and Upkeep (2.0)
- CAW 2430 Commercial Cabinetry Technology (4.0)
- CAW 299R Skills USA (1.0)
- EGDT 1040 Computer Aided Drafting--AutoCAD (3.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- ACRT, Air Conditioning and Refrigeration Technology
- BCCM, Building Construction and Construction Management
- BIT, Building Inspection Technology
- CAW, Cabinetry and Architectural Woodworking
- FAC, Facilities Management
- LINE, Lineman Technology
- WELD, Welding Technology
Chemistry

Department Chair: Bruce Wilson
Office: PS 212f
Telephone: 801-863-7138
E-mail: Bruce.Wilson@uvu.edu

Adviser: Tom Liljegren
Office: PS 202b
Telephone: 801-863-8616
E-mail: TLiljegren@uvu.edu

Advisor, Pre-Health Professions: Jennifer Orchard
Office: LC 404a
Telephone: 801-863-7207
E-mail: orcharje@uvu.edu

Faculty:
Associate Professor
Calvin Bond
Fern Caka
Gamin Gunawardena
Daren Heaton
Matthew Horn
Craig Thulin
Bruce Wilson

Staff:
Administrative Assistant: Kellie D. Hancock
Lab Facilities Manager: Tom Strangfeld
Lab Manager/Instructor: Kris Andress
Lab Manager/Instructor: Matthew Bernard
Organic Lab Manager: Chin Yeh Yeh

College of Science and Health
Dean: Sam Rushforth
Office: PS 201a
Telephone: 801-863-8980

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 and Physics Education will be prepared to teach chemistry and physics in junior and senior high. Current employment opportunities for graduates from Chemistry and Physics 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 and Physics Education

ADMISSION REQUIREMENTS
A student who wants to pursue a chemistry major should meet with the department chair or chemistry advisor for advisement.

PROGRAMS

BS in Chemistry 121-125 Credits

<table>
<thead>
<tr>
<th>General Education Requirements: 41 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ENGL 1010 Introduction to Writing 3.0</td>
</tr>
<tr>
<td>• ENGL 2020 Intermediate Writing–Science and Technology 3.0</td>
</tr>
<tr>
<td>• MATH 1210 Calculus I 5.0</td>
</tr>
<tr>
<td>Complete one of the following: 3.0</td>
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<tr>
<td>• HIST 1700 American Civilization (3.0)</td>
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<tr>
<td>• HIST 2700 U.S. History prior to 1877 (3.0)</td>
</tr>
<tr>
<td>and HIST 2710 U.S. History since 1877 (3.0)</td>
</tr>
<tr>
<td>• HIST 1740 U.S. Economic History (3.0)</td>
</tr>
<tr>
<td>• POLS 1000 American Heritage (3.0)</td>
</tr>
<tr>
<td>• POLS 1100 American National Government (3.0)</td>
</tr>
<tr>
<td>Complete the following:</td>
</tr>
<tr>
<td>• PHIL 2050 Ethics and Values 3.0</td>
</tr>
<tr>
<td>• HLTH 1100 Personal Health and Wellness (2.0)</td>
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<tr>
<td>or PES 1097 Fitness for Life 2.0</td>
</tr>
<tr>
<td>Distribution Courses:</td>
</tr>
<tr>
<td>• Biology 3.0</td>
</tr>
<tr>
<td>or BIOL 1610 College Biology I (Required for Forensic Chemistry) (4.0)</td>
</tr>
<tr>
<td>• CHEM 1210 Principles of Chemistry I 4.0</td>
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<tr>
<td>• CHEM 1215 Principles of Chemistry I Laboratory 1.0</td>
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<tr>
<td>• CHEM 1220 Principles of Chemistry II 4.0</td>
</tr>
<tr>
<td>• CHEM 1225 Principles of Chemistry II Laboratory 1.0</td>
</tr>
<tr>
<td>• Fine Arts 3.0</td>
</tr>
<tr>
<td>Complete one of the following sets of distribution courses, dependant on your choice of emphasis: 6.0</td>
</tr>
<tr>
<td>For the Professional Chemistry or Biochemistry Emphasis:</td>
</tr>
<tr>
<td>• Humanities</td>
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<tr>
<td>• Social/Behavioral Science</td>
</tr>
<tr>
<td>For the Forensic Chemistry Emphasis:</td>
</tr>
<tr>
<td>• COMM 1020 Public Speaking (3.0)</td>
</tr>
<tr>
<td>• CJ 1010 Introduction to Criminal Justice (3.0)</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 44 Credits

| • 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 |
| • CHEM 3000 Analytical Chemistry 2.0 |
| • CHEM 3005 Analytical Chemistry Laboratory 2.0 |
| • CHEM 3100 Advanced Inorganic Chemistry 4.0 |
| • CHEM 3600 Biological Chemistry 3.0 |
| • CHEM 3605 Biochemistry Laboratory 1.0 |
| • CHEM 4000 Instrumental Analysis 2.0 |
| • CHEM 4005 Instrumental Analysis Laboratory 2.0 |
| • MATH 1220 Calculus II 5.0 |
| • PHYS 2210 Physics for Scientists and Engineers I 4.0 |
| • PHYS 2220 Physics for Scientists and Engineers II 4.0 |
| • PHYS 2215 Physics for Scientists and Engineers I Lab 1.0 |
| • PHYS 2230 Physics for Scientists and Engineers II Lab 1.0 |

Emphasis:

Chemistry 36 Credits

Emphasis Requirements: 16 Credits

| • 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 |
| • BIOL 3405 Cell Biology Laboratory 1.0 |
| • CHEM 3000 Physical Chemistry Applications 3.0 |
| • CHEM 3115 Physical and Inorganic Chemistry Laboratory 1.0 |
| • CHEM 3620 Biological Chemistry II 3.0 |

Emphasis Elective Requirements: 20 Credits

| • One Upper-division (3000 and above) Chemistry course except Chem 3630 and 3070 3.0 |
A minimum of 17 credits from the following: 17.0
| • BIOL 3300 Developmental Biology (3.0) |
| • BIOL 3500 Genetics (3.0) |
| and BIOL 3505 Genetics Tutorial(0.5) |
| • BIOL 3515 Advanced Genetics Laboratory (1.0) |
| • BIOL 3550 Molecular Biology (3.0) |
| • BIOL 3650 Biotechnology (2.0) |
| • BIOL 4450 Immunology (3.0) |
| • BIOL 4455 Immunology Laboratory (1.0) |
| • ZOOL 2320 Human Anatomy (3.0) |
| and 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) |

Emphasis in Forensic Chemistry 40 Credits

Emphasis Requirements: 31 Credits

| • BIOL 1615 College Biology I Laboratory 1.0 |
| • CHEM 3030 Physical Chemistry Applications in Biology 3.0 |
| • CHEM 3700 Forensic Analytical Chemistry 3.0 |
| • MATH 2040 Principles of Statistics 4.0 |

Forensic Requirements: 6 Credits

| • CHEM 482R Chemistry Internship 3.0 |
| • CJ 1330 Criminal Law 3.0 |
| • CJ 1340 Criminal Investigations 3.0 |
| • CJ 1350 Introduction to Forensic Science 3.0 |
| • CJ 2350 Laws of Evidence 3.0 |
| • FSCI 3880 Expert Witness Professional Practices 3.0 |

Complete one of the following: 2.0

| • BIOL 2500 Environmental Biology (3.0) |
| • BIOL 3650 Biotechnology (2.0) |
| • MICR 2600 Microbiology for Health Professions (3.0) |
| and MICR 2605 Microbiology for Health Professions Laboratory (1.0) |
| • ZOOL 2320 Human Anatomy (3.0) |
| and ZOOL 2325 Human Anatomy Laboratory(1.0) |
| • ZOOL 2420 Human Physiology (3.0) |
| and ZOOL 2425 Human Physiology Laboratory(1.0) |

Emphasis Elective Requirements: 9 Credits

Complete 9 credits from the following recommended courses:

| • BIOL 3400 Cell Biology (3.0) |
Chemistry

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3500</td>
<td>Genetics (3.0)</td>
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<tr>
<td>BIOL 3505</td>
<td>Genetics Tutorial (0.5)</td>
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<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 (4.0)</td>
<td></td>
</tr>
<tr>
<td>GEO 3400</td>
<td>Forensic Geology (4.0)</td>
<td></td>
</tr>
<tr>
<td>FSCI 3400</td>
<td>Forensic Criminalistics (3.0)</td>
<td></td>
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<tr>
<td>FSCI 3500</td>
<td>Footwear Impression Evidence (3.0)</td>
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<tr>
<td>FSCI 3520</td>
<td>Tire Imprint Evidence (3.0)</td>
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<tr>
<td>FSCI 3540</td>
<td>Forensic Trace Analysis I (3.0)</td>
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<tr>
<td>FSCI 3550</td>
<td>Forensic Trace Analysis II (3.0)</td>
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</tr>
<tr>
<td>FSCI 3700</td>
<td>Fingerprint Examination I (3.0)</td>
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<tr>
<td>FSCI 3720</td>
<td>Fingerprint Examination II (3.0)</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>
<td>FSCI 3860</td>
<td>Forensic Microscopy (3.0)</td>
<td></td>
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<tr>
<td>FSCI 4400</td>
<td>Forensic Chemist (3.0)</td>
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<tr>
<td></td>
<td>or other Courses in consultation with the Department Academic Advisor</td>
<td></td>
</tr>
</tbody>
</table>

**Emphasis in Professional Chemistry 36 Credits**

**Emphasis Requirements:**
- CHEM 3060 Physical Chemistry I 4.0
- CHEM 3070 Physical Chemistry II 4.0
- CHEM 3115 Physical and Inorganic Chemistry Laboratory 1.0
- MATH 2210 Calculus III 3.0
- MATH 2280 Ordinary Differential Equations 3.0
- PHYS 3300 Mathematical Physics 3.0

Complete 12 credits of upper-division CHEM courses not previously taken, with the exception of CHEM 3090. With departmental approval, up to 6 credits of upper-division courses in BIOL, GEO, MATH, or PHYS may be substituted.

**Emphasis Elective Requirements:** 6 Credits
- Any courses 1000 or higher 6.0

**BS in Chemistry/Physics Education 126 Credits**

**Matriculation Requirements:**
1. Students are admitted directly to the baccalaureate degree program in Chemistry and 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.
3. Students must select between chemistry and physics emphases upon matriculation.

**Secondary Education Requirements:**
- PRAXIS I Pre-Professional Skills Test (PPST) scores of Reading 170 and Mathematics 173 or higher.
- GPA of 2.75 or higher
- Completion of all General Education requirements and required pre-professional education courses.
- An interview directed by the Teacher Education Selection and Retention Committee.
- Pass criminal background check.

**General Education Requirements:** 41 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2020 Intermediate Writing–Science and Technology 3.0
- MATH 1210 Calculus I 5.0

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
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2.0

Distribution Courses:
- Biology 3.0
- CHEM 1210 Principles of Chemistry I 4.0

**Discipline Core Requirements:** 85 Credits

<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</td>
<td>4.0</td>
</tr>
<tr>
<td>CHEM 2320</td>
<td>Organic Chemistry II</td>
<td>4.0</td>
</tr>
<tr>
<td>CHEM 2315</td>
<td>Organic Chemistry I Laboratory</td>
<td>1.0</td>
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<tr>
<td>CHEM 2325</td>
<td>Organic Chemistry II Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>CHEM 3000</td>
<td>Analytical Chemistry</td>
<td>3.0</td>
</tr>
<tr>
<td>CHEM 3005</td>
<td>Analytical Chemistry Laboratory</td>
<td>1.0</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.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- CHEM, Chemistry

**Minor in Chemistry 27 Credits**

**Matriculation Requirements:**
- 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>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1210</td>
<td>Principles of Chemistry I</td>
<td>4.0</td>
</tr>
<tr>
<td>CHEM 1220</td>
<td>Principles of Chemistry II</td>
<td>4.0</td>
</tr>
<tr>
<td>CHEM 1215</td>
<td>Principles of Chemistry I Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>CHEM 1225</td>
<td>Principles of Chemistry II Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>CHEM 2310</td>
<td>Organic Chemistry I</td>
<td>4.0</td>
</tr>
</tbody>
</table>
Academic Opportunities

The department 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.

Other Services

Writing Center
Faculty Director: Joshua Hilst
Coordinator: Leigh Ann Copas
Assistant Coordinator: Rebecca Disrud
Office: LI 208
Telephone: 801-863-8936

Learning Strategies Support
Manager: Pat Nelson
Office: LC 405q
Telephone: 801-863-7418

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- CLSS, College Success Studies
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 further definitions.

Reminder: An overall grade point average of 2.0 (C) or above is required for graduation.

Certificate in Collision Repair Technology 32 CREDITS

Discipline Core Requirements: 32 Credits

Complete the following:

- AUT 1280 Tech Math for Mechanics 3.0
- MGMT 2200 Business Communication 3.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course
- AUT 116L Automotive Electrical Systems Lab 2.0
- AUT 2240 Heating Ventilation Air Conditioning and Refrigeration Theory 2.0
- AUT 224L Automotive HVAC Lab 1.0
- CRT 1110 Surface Preparation 2.0
- CRT 111L Surface Preparation Lab 1.0
- CRT 1120 Nonstructural Repair 2.0
- CRT 112L Nonstructural Repair Lab 1.0
- CRT 1130 Overall Refinishing and Problem Solving 2.0
- CRT 113L Overall Refinishing and Problem Solving Lab 1.0
- CRT 1140 Panel Replacement and Adjustment 2.0
- CRT 114L Panel Replacement and Adjustment Lab 1.0
- CRT 1210 Blending Tinting and Detailing 2.0
- CRT 121L Blending Tinting and Detailing Lab 1.0
- CRT 1230 Welding and Cutting 2.0
- CRT 123L Welding and Cutting Lab 1.0

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.

Diploma in Collision Repair Technology 56 CREDITS

Discipline Core Requirements: 32 Credits

Complete the following:

- AUT 1280 Tech Math for Mechanics 3.0
- MGMT 2200 Business Communication 3.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course
- AUT 116L Automotive Electrical Systems 2.0
- AUT 116L Automotive Electrical Systems Lab 1.0
- AUT 2240 Heating Ventilation Air Conditioning and Refrigeration Theory 2.0
- AUT 224L Automotive HVAC Lab 1.0
- CRT 1110 Surface Preparation 2.0
- CRT 111L Surface Preparation Lab 1.0
- CRT 1120 Nonstructural Repair 2.0
- CRT 112L Nonstructural Repair Lab 1.0
- CRT 1130 Overall Refinishing and Problem Solving 2.0
- CRT 113L Overall Refinishing and Problem Solving Lab 1.0
- CRT 1140 Panel Replacement and Adjustment 2.0
- CRT 114L Panel Replacement and Adjustment Lab 1.0
- CRT 1210 Blending Tinting and Detailing 2.0
- CRT 121L Blending Tinting and Detailing Lab 1.0
- CRT 1230 Welding and Cutting 2.0
- CRT 123L Welding and Cutting Lab 1.0
- CRT 261R Cooperative Work Experience* (1.0)
- CRT 2685R Cooperative Correlated Class* (1.0)
- CRT 299R VICA (optional) (1.0)

Emphasis:

Complete one of the following:

- Collision Repair 24.0
- Street Rod 24.0

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.

Emphasis in Collision Repair 24 Credits

Emphasis Requirements: 24 Credits

- CRT 2310 Collision Damage Reporting 2.0
- CRT 231L Collision Damage Reporting Lab 1.0
- CRT 2320 Structural Damage Analysis 2.0
- CRT 232L Structural Damage Analysis Lab 1.0
- CRT 2330 Structural Repair 2.0
- CRT 233L Structural Repair Lab 1.0
- CRT 2340 Full and Partial Panel Replacement 2.0
- CRT 234L Full and Partial Panel Replacement Lab 1.0
- CRT 2400 Plastic Paintless Dent Repair 2.0
- CRT 240L Plastic Paintless Dent Repair Lab 1.0
- CRT 2440 Mechanical Advanced Vehicle Systems 2.0
- CRT 244L Mechanical Advanced Vehicle Systems Lab 1.0
- CRT 2450 Bags Brakes Steering 2.0
- CRT 245L Bags Brakes Steering Lab 1.0
- CRT 2630 Detailing and Custom Painting 2.0
- CRT 263L Detailing and Custom Painting Lab 1.0

Emphasis in Street Rod 24 Credits

Emphasis Requirements: 24 Credits

- CRT 2510 Custom Welding 2.0
- CRT 251L Custom Welding Lab 1.0
- CRT 2520 Customizing 2.0
- CRT 252L Customizing Lab 1.0
- CRT 2530 Panel Fabrication 2.0
- CRT 253L Panel Fabrication Lab 1.0
- CRT 2610 Top Chopping Sectioning and Channeling 2.0
- CRT 261L Top Chopping Sectioning and Channeling Lab 1.0
- CRT 2620 Frames 2.0
- CRT 262L Frames Lab 1.0
- CRT 2630 Detailing and Custom Painting 2.0
- CRT 263L Detailing and Custom Painting Lab 1.0
- CRT 2640 Panel Fabrication of Aluminum 2.0
- CRT 264L Panel Fabrication of Aluminum Lab 1.0
- CRT 2650 Automotive Interior Design 2.0
- CRT 265L Automotive Interior Design Lab 1.0

AAS in Collision Repair Technology 64 Credits

General Education Requirements: 16 Credits

- MGMT 2200 Business Communication 3.0
- AUT 1280 Tech Math for Mechanics 3.0
- Any approved Humanities, Fine Arts, or Foreign Language Distribution Course 3.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course 3.0
- Any approved Physical or Science Distribution Course 3.0
- Any approved Physical Education, Health, Safety or Environment Course 1.0

Discipline Core Requirements: 24 Credits

Complete the following:

- AUT 116L Automotive Electrical Systems 2.0
- AUT 116L Automotive Electrical Systems Lab 1.0
- AUT 2240 Heating Ventilation Air Conditioning and Refrigeration Theory 2.0
- AUT 224L Automotive HVAC Lab 1.0
- CRT 1110 Surface Preparation 2.0
- CRT 111L Surface Preparation Lab 1.0
- CRT 1120 Nonstructural Repair 2.0
- CRT 112L Nonstructural Repair Lab 1.0
- CRT 113L Overall Refinishing and Problem Solving 2.0
- CRT 113L Overall Refinishing and Problem Solving Lab 1.0
- CRT 1140 Panel Replacement and Adjustment 2.0
- CRT 114L Panel Replacement and Adjustment Lab 1.0
- CRT 1210 Blending Tinting and Detailing 2.0
- CRT 121L Blending Tinting and Detailing Lab 1.0
- CRT 1230 Welding and Cutting 2.0
- CRT 123L Welding and Cutting Lab 1.0
- CRT 261R Cooperative Work Experience* (1.0)
- CRT 2685R Cooperative Correlated Class* (1.0)
- CRT 299R VICA (optional) (1.0)

Emphasis:

Complete one of the following:

- Collision Repair 24.0
- Street Rod 24.0

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)

Catalog 2011-2012 Utah Valley University

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College of Technology and Computing

Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

CAREER OPPORTUNITIES

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.

PROGRAMS

Four options are available: a 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 further definitions.

Reminder: An overall grade point average of 2.0 (C) or above is required for graduation.
Emphasis in Collision Repair 24 Credits

Emphasis Requirements: 24 Credits
- CRT 2310 Collision Damage Reporting 2.0
- CRT 231L Collision Damage Reporting Lab 1.0
- CRT 2320 Structural Damage Analysis 2.0
- CRT 232L Structural Damage Analysis Lab 1.0
- CRT 2330 Structural Repair 2.0
- CRT 233L Structural Repair Lab 1.0
- CRT 2340 Full and Partial Panel Replacement 2.0
- CRT 234L Full and Partial Panel Replacement Lab 1.0
- CRT 2400 Plastic Paintless Dent Repair 2.0
- CRT 240L Plastic Paintless Dent Repair Lab 1.0
- CRT 2440 Mechanical Advanced Vehicle Systems 2.0
- CRT 244L Mechanical Advanced Vehicle Systems Lab 1.0
- CRT 2450 Bags Brakes Steering 2.0
- CRT 245L Bags Brakes Steering Lab 1.0
- CRT 2630 Detailing and Custom Painting 2.0
- CRT 263L Detailing and Custom Painting Lab 1.0

Emphasis in Street Rod 24 Credits

Emphasis Requirements: 24 Credits
Complete the following:
- CRT 2500 Custom Welding 2.0
- CRT 2510 Custom Welding Lab 1.0
- CRT 2520 Customizing 2.0
- CRT 252L Customizing Lab 1.0
- CRT 2530 Panel Fabrication 2.0
- CRT 253L Panel Fabrication Lab 1.0
- CRT 2610 Top Chopping Sectioning and Channeling 2.0
- CRT 261L Top Chopping Sectioning and Channeling Lab 1.0
- CRT 2640 Panel Fabrication of Aluminum 2.0
- CRT 264L Panel Fabrication of Aluminum Lab 1.0
- CRT 2650 Automotive Interior Design 2.0
- CRT 265L Automotive Interior Design Lab 1.0

BS in Technology Management 125 Credits

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Collision Repair Technology 45 Credits

Emphasis Requirements: 45 Credits
- AUT 1160 Automotive Electrical Systems 2.0
- AUT 116L Automotive Electrical Systems Lab 1.0
- AUT 2240 Heating Ventilation Air Conditioning and Refrigeration Theory 2.0
- AUT 224L Automotive HVACR Lab 1.0
- CRT 1110 Surface Preparation 2.0
- CRT 111L Surface Preparation Lab 1.0
- CRT 1120 Nonstructural Repair 2.0
- CRT 112L Nonstructural Repair Lab 1.0
- CRT 1130 Overall Refinishing and Problem Solving 2.0

- CRT 113L Overall Refinishing and Problem Solving Lab 1.0
- CRT 1140 Panel Replacement and Adjustment 2.0
- CRT 114L Panel Replacement and Adjustment Lab 1.0
- CRT 1210 Blending Tinting and Detailing 2.0
- CRT 121L Blending Tinting and Detailing Lab 1.0
- CRT 1230 Welding and Cutting 2.0
- CRT 123L Welding and Cutting Lab 1.0
- CRT 2310 Collision Damage Reporting 2.0
- CRT 231L Collision Damage Reporting Lab 1.0
- CRT 2320 Structural Damage Analysis 2.0
- CRT 232L Structural Damage Analysis Lab 1.0
- CRT 2330 Structural Repair 2.0
- CRT 233L Structural Repair Lab 1.0
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- CRT 240L Plastic Paintless Dent Repair Lab 1.0
- CRT 2440 Mechanical Advanced Vehicle Systems 2.0
- CRT 244L Mechanical Advanced Vehicle Systems Lab 1.0
- CRT 2450 Bags Brakes Steering 2.0
- CRT 245L Bags Brakes Steering Lab 1.0

Due to the technical nature of the material in the CRT courses, additional reading and math instruction may be required. More information will be given during advisement.

Recommended Collision Repair Course
The following course is recommended for students who would like to learn basic skills in the collision industry, while working on their own vehicle.
- CRT 100R Paint Your Own Car 2.0

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- AUT, Automotive Technology
- CRT, Collision Repair Technology
- DMT, Diesel Mechanics Technology
Communication

Programs

AA Pre Major in Communication

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing—Science and Technology 3.0
Complete one of the following: 3.0
- 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: 3.0
- 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: 3.0
- PHIL 2050 Ethics and Values
- or HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life
Distribution Courses 2.0
- 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: 18 Credits
- COMM 1020 Public Speaking 3.0
- COMM 1130 Writing for the Mass Media 3.0
- COMM 1500 Introduction to Mass Communication 3.0
- COMM 2100 Mass Communication and Society 3.0
- COMM 2110 Interpersonal Communication 3.0
- COMM 217Q Race Class and Gender in U.S. Cinema 3.0
- COMM 2120 Small Group Communication and Decision Making 3.0
- COMM 2130 Television News Writing and Reporting 3.0
- COMM 2270 Argumentation 3.0
- COMM 2280 Oral Interpretation 3.0
- COMM 2300 Public Relations (3.0)
- COMM 2400 Organizational Communication 3.0
- COMM 2560 Radio Production (3.0)
- COMM 2200 Broadcast Journalism Anchoring and Producing 3.0
- COMM 2790 Magazine Writing (3.0)
- THEA 2213 Film History (3.0)
- THEA 2323 Film History II (3.0)

Elective Requirements: 8 Credits
- Complete 8 credit hours of one foreign language. 8.0

Graduation Requirements:
1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency requirements—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 6 credit hours of coursework from one language.

AS Pre Major in Communication

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing—Science and Technology 3.0
Complete one of the following: 3.0
- 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: 3.0
- 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: 3.0
- PHIL 2050 Ethics and Values
- or HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2.0
- 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: 24 Credits
- COMM 1020 Public Speaking 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

College of Humanities and Social Sciences

Dean: David P. Yells
Office: LA 209d
Telephone: 801-863-7435

Department of Communication

Office: LC 227
Telephone: 801-863-8452

Department Chair: David W. Scott
Office: LC 239
Telephone: 801-863-6884

Communication Administrative Assistant: Natalie Limb
Office: LC 227
Telephone: 801-863-8452

Faculty:
Professor
David Litchford
associate professor
Philip Gordon
Jingdong Liang
David W. Scott
Assistant Professor
Scott Carrier
Janet W. Colvin
Mathew Kushin
Nancy Tobler
Lecturer
Farah Chase Dunn

Program Description

The mission of the Department of Communication is prepare students to execute critical thinking skills and to help students prepare for careers that require expertise in oral, written, and 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 B.A. or B.S. in Integrated Studies as a minor.

Programs of study in Communication at UVU offer a balance of analytic and applied approaches to study in the field. The department offers an expanded 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, as exemplified in our broadcast journalism courses, which culminate in a student-produced, locally-broadcast television news show.

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

Career Opportunities

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, press agentry, 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.

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Programs
Communication

Emphasis in Public Relations 45 Credits

Emphasis Requirements: 24 Credits

- COMM 1130 Writing for the Media Mass Media (3.0)
- COMM 3520 Case Studies in Public Relations 3.0
- COMM 3530 Public Relations Writing 3.0
- COMM 4850 Public Relations Campaigns 3.0
- MKTG 3600 Principles of Marketing 3.0

Complete 9 credits from the following (6 must be upper division):

- COMM 2790 Magazine Writing (3.0)
- COMM 350R Special Topics in Mass Communication (3.0)
- COMM 3780 Mormon Cultural Studies (3.0)
- COMM 481R Internship (1.0) or Other Advisor approved Comm courses

Emphasis Elective Requirements: 21 Credits

Complete 21 credits of non-COMM courses (10 credits 21.0 must be upper division). A MINOR in another discipline is highly recommended.

Emphasis in Speech Communication 45.0 Credits

Emphasis Requirements: 27 Credits

- COMM 2110 Interpersonal Communication 3.0
- COMM 2120 Small Group Communication and Decision Making 3.0
- COMM 2400 Organizational Communication 3.0
- COMM 2270 Argumentation (3.0)
- COMM 3410 Fundamentals of Mediation and Negotiation 3.0
- COMM 3190 Intercultural Communication 3.0

Complete 12 credits of any upper division COMM courses.

Emphasis Elective Requirements: 18 Credits

Complete 18 credits of non-COMM courses (13 credits 18.0 must be upper division). A MINOR in another discipline is highly recommended.

BS in Communication 120 Credits

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences (3.0) or ENGL 2020 Intermediate Writing—Science and Technology 3.0
- MATH 1040 Intermediate Statistics (recommended for Social Science majors) (3.0)

Complete one of the following:

- HIST 1700 American Civilization (3.0)

Emphasis in Journalism 45 Credits

Emphasis Requirements: 24 Credits

- COMM 1610 Reporting for the Mass Media Mass Media (3.0)
- COMM 2120 The News Editing Process 3.0
- COMM 2790 Magazine Writing (3.0)
- COMM 3790 Case Studies in Journalism 3.0
- COMM 479R Journalism Workshop 3.0
- COMM 481R Internship 1.0

Complete 9 credits from the following (6 must be upper division):

- COMM 3130 The Culture of Nature and Technology (3.0)
- COMM 350R Special Topics in Mass Communication (3.0)
- COMM 3660 Investigative Reporting (3.0)
- COMM 368R Long-Form Video Journalism (3.0)
- COMM 413R Advanced Television News Writing and Reporting (3.0)

Other Advisor approved Comm courses

BA in Communication 120 Credits

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences (3.0)
or ENGL 2020 Intermediate Writing—Science and Technology 3.0
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)

Complete one of the following:

- HIST 1700 American Civilization (3.0)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 2300</td>
<td>Public Relations</td>
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<tr>
<td>COMM 3010</td>
<td>History of Mass Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 3020</td>
<td>Communication Research Methods</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 3050</td>
<td>Theories of Communication and Culture</td>
<td>3.0</td>
</tr>
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<td>COMM 350R</td>
<td>Special Topics in Mass Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 3700</td>
<td>Free Expression in a Democratic Society</td>
<td>3.0</td>
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<tr>
<td>COMM 3000</td>
<td>Media Ethics (3.0)</td>
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<tr>
<td></td>
<td>or</td>
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<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
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<tr>
<td></td>
<td>- Journalism</td>
<td>45.0</td>
</tr>
<tr>
<td></td>
<td>- Public Relations</td>
<td>45.0</td>
</tr>
<tr>
<td></td>
<td>- Speech Communication</td>
<td>45.0</td>
</tr>
<tr>
<td>Elective Requirements: 13 Credits</td>
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<tr>
<td></td>
<td>Complete 13 credits of electives 1000 level or higher</td>
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</table>

**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.

**Emphasis in Journalism 45 Credits**

**Emphasis Requirements:**
- COMM 1010 Reporting for the Mass Media 3.0
- COMM 2100 The News Editing Process 3.0
- COMM 2790 Magazine Writing (3.0)
- COMM 3790 Case Studies in Journalism 3.0
- COMM 479R Journalism Workshop 3.0
- COMM 481R Internship 3.0

Complete 9 credits from the following (6 must be upper division):
- COMM 3130 The Culture of Nature and Technology (3.0)
- COMM 350R Special Topics in Mass Communication (3.0)
- COMM 3660 Investigative Reporting (3.0)
- COMM 380R Long-Format Video Journalism (3.0)
- COMM 413R Advanced Television News Writing and Reporting (3.0)
- COMM 479R Journalism Workshop (if not already taken) (3.0)
- Other Advisor approved Comm courses

**Emphasis Elective Requirements: 21 Credits**
Complete 21 credits of non-COMM courses (10 credits 21.0 must be upper division). A MINOR in another discipline is highly recommended.

**Emphasis in Public Relations 45 Credits**

**Emphasis Requirements:**
- COMM 1130 Writing for the Mass Media 3.0
- COMM 3520 Case Studies in Public Relations 3.0
- COMM 3530 Public Relations Writing 3.0
- COMM 4850 Public Relations Campaigns 3.0
- MKTG 3620 Principles of Marketing 3.0

Complete 9 credits from the following (6 must be upper division):
- COMM 2790 Magazine Writing (3.0)
- COMM 350R Special Topics in Mass Communication (3.0)
- COMM 3780 Mormon Cultural Studies (3.0)
- COMM 481R Internship (1.0)
- Other Advisor approved Comm courses

**Emphasis Elective Requirements: 21 Credits**
Complete 21 credits of non-COMM courses (10 credits 21.0 must be upper division). A MINOR in another discipline is highly recommended.

**Emphasis in Speech Communication 45.0 Credits**

**Emphasis Requirements:**
- COMM 2110 Interpersonal Communication 3.0
- COMM 2120 Small Group Communication and Decision Making 3.0
- COMM 2400 Organizational Communication 3.0
- COMM 2270 Argumentation (3.0)
- COMM 3410 Fundamentals of Mediation and Negotiation 3.0
- COMM 319G Intercultural Communication 3.0
- ENC 213 Encounters 3.0

Complete 12 credits of any upper division COMM courses:

**Emphasis Elective Requirements: 18 Credits**
Complete 18 credits of non-COMM courses (13 credits 18.0 must be upper division). A MINOR in another discipline is highly recommended.

**BA/BS in Integrated Studies 123 Credits**

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

**Emphasis in Communication 18 Credits**

Complete one of the following tracks: 18.0

**TRACK ONE: COMMUNICATIONS**
Complete 6 credits from the following:
- COMM 1500 Introduction to Mass Communication (3.0)
- COMM 1050 Introduction to Speech Communication (3.0)
- COMM 2110 Interpersonal Communication (3.0)
- COMM 2120 Small Group Communication and Decision Making (3.0)
- THEA 2313 Film History I (3.0)
- THEA 2323 Film History II (3.0)

Complete 12 credits from the following:
- ANTH 3500 Discourse Semiotics and Representation (3.0)
- COMM 3050 Theories of Communication and Culture (3.0)
- COMM 3100 Propaganda and Persuasion (3.0)
- COMM 3110 Non-Fiction Cinema History (3.0)
- COMM 332G Cross-Cultural Communications for International Business (3.0)
- COMM 350R Special Topics in Mass Communication (3.0)
- COMM 362G International Communication (3.0)
- COMM 3700 Free Expression in a Democratic Society (3.0)
- COMM 3780 Mormon Cultural Studies (3.0)

**TRACK TWO: JOURNALISM**
Complete 6 credits from the following:
- COMM 1330 Writing for the Mass Media (3.0)
- COMM 2100 Mass Communication and Society (3.0)
- COMM 2560 Radio Production (3.0)
- COMM 2790 Magazine Writing (3.0)

Complete 12 credits from the following:
- COMM 3000 Media Ethics (3.0)
- COMM 3000 Propaganda and Persuasion (3.0)
- COMM 3650 Investigative Reporting (3.0)
- COMM 3700 Free Expression in a Democratic Society (3.0)
- COMM 3790 Case Studies in Journalism (3.0)
- COMM 380R Long-Format Video Journalism (3.0)
- COMM 413R Advanced Television News Writing and Reporting (3.0)
- COMM 479R On-Air Broadcast Journalism (3.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- COMM, Communication
Computer Science

Department Chair: Kirk Love
Office: CS 520J
Telephone: 801-863-8852

Advisors:
- Patti Miner
  Office: CS 635
  Telephone: 801-863-8408
- Fred Orchard
  Office: CS 635
  Telephone: 801-863-6238

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

CAREER OPPORTUNITIES
There are many career opportunities for those educated in computer science, computer networking, computer engineering, database engineering, and software engineering. Possible occupational areas include software engineering, software development, programming, network programming, systems analysis and design, consulting, customer support, maintaining software, networks or media systems, manufacturer’s representative, client services, software testing, database administration, web programming, web design, network management, and network engineering. The long-term employment outlook is currently excellent in all of these areas.

Certificate in Programmer 30 Credits
This program is designed to prepare students for careers in the many areas of computer science requiring knowledge of computer systems hardware, software, and peripheral devices. Computer Science Engineers have strong technical skills and an understanding of how to work with both computer hardware and software that are scientific and technical in nature.

Emphasis in Computer Engineering 42 Credits
This program is designed to prepare students for careers in the many areas of computer science requiring knowledge of computer systems hardware, software, and peripheral devices. Computer Science Engineers have strong technical skills and an understanding of how to work with both computer hardware and software that are scientific and technical in nature.

Elective Requirements 6 Credits
Choose 6 credits from the following courses (Must be approved by CNS Department. See CNS advisor):

- CS 2220 Visual Basic Programming (3.0)
- CS 2220 Rapid Client Server Development with Visual Basic (3.0)
- CS 2250 Java Programming (3.0)
- CS 2250 Java Software Development (3.0)
- CS 2370 C-plus-plus Programming (3.0)
- CS 2370 C-plus-plus Software Development (3.0)
- CS 2550 Internet Programming (3.0)
- CS 3550 Internet Software Development (3.0)
- CS 239R Current Topics in Computer Science (1.0)
- CS 3063 Operating Systems Theory (3.0)
- CS 3063 C# .NET Software Development (3.0)
- CS 3520 Database Theory (3.0)

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.

AAS in Computer Science 64 Credits

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 3.0
- HUMANITIES/FINE ARTS/FOREIGN LANGUAGE 3.0
- COMM 1020 recommended
- COMM 2110 Interpersonal Communication * 3.0
- BIOLOGY 3.0
- PHYS 2210 Physics for Scientists and Engineers I 3.0
- PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT 1.0

Discipline Core Requirements 9 Credits
Complete the following:

- CS 1400 Fundamentals of Programming * 3.0
- CS 2600 Fundamentals of Data Communications * 3.0
- CS 2810 Computer Organization and Architecture * 3.0

Emphasis:
Complete one of the following:

- Computer Engineering 42.0
- Computing and Networking Sciences 42.0

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.

Footnotes:
* Minimum grade of C- required
Computer Science

- IT 1510 Introduction to System Administration–Linux/UNIX
- MATH 1210 Calculus I (fulfills GE requirement)

Emphasis Elective Requirements: 20 Credits
Complete 20 credits from the following courses (minimum grade of C- required). (Must be approved by CNS Department. See CNS Advisor):
- CS 1410 Object-Oriented Programming (3.0)
- CS 2300 Discrete Structures I (3.0)
- CS 2420 Introduction to Algorithms and Data Structures (3.0)
- CS 2450 Software Engineering (3.0)
- CS 2550 Internet Programming (3.0)
- or CS 3550 Internet Software Development (3.0)
- CS 3060 Operating Systems Theory (3.0)
- CS 3520 Database Theory (3.0)
- EENG 3750 Engineering Analysis (3.0)
- EENG 3770 Signals and Systems (3.0)
- EENG 4730 Embedded Systems (3.0)
- EENG 4750 Digital Signal Processing (3.0)
- EENG 4760 Electronic Systems (3.0)
- EENG 4765 Electronics Systems Lab (1.0)
- MATH 1220 Calculus II (5.0)
- PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)

Emphasis in Computing and Networking Sciences: 42 Credits
This program is designed to prepare students for careers in the areas of computer science and networking requiring a knowledge of both computer science and computer networking. The Computer Networking program is a comprehensive curriculum which covers the range of networking and data communications technologies. Students in this program are provided instruction in analysis, installation, maintenance and management of local and wide area networks, and world wide web servers.

Emphasis Requirements: 24 Credits
Complete the following:
- CS 1410 Object-Oriented Programming*
- CS 2200 Discrete Structures I*
- CS 2420 Introduction to Algorithms and Data Structures*
- CS 3060 Operating Systems Theory*
- CS 3220 Rapid Client Server Development with Visual Basic*
- or CS 3250 Java Software Development (3.0)*
- or CS 3260 C#Sharp.NET Software Development (3.0)*
- CS 3520 Database Theory*
- CS 3690 Advanced Topics in Data Communications*
- MATH 1060 Trigonometry (fulfills GE requirement)*

Emphasis Elective Requirements: 18 Credits
Complete 18 credits from the following courses (minimum grade of C- required). (Must be approved by CNS Department. See CNS Advisor):
- CS 1030 Foundations of Computer Science (3.0)
- CS 2220 Visual Basic Programming (3.0)
- or CS 3220 Rapid Client Server Development with Visual Basic (3.0)
- CS 2250 Java Programming (3.0)
- or CS 3250 Java Software Development (3.0)
- CS 2370 C-plus-plus Programming (3.0)
- or CS 3370 C-plus-plus Software Development (3.0)
- CS 2450 Software Engineering (3.0)
- CS 2550 Internet Programming (3.0)
- or CS 3550 Internet Software Development (3.0)
- CS 281R Internship (3.0 credits max.) (1.0)
- CS 3260 C#Sharp.NET Software Development (3.0)
- CS 3410 Human Factors in Software Engineering (3.0)
- CS 3660 Web Server Programming in ASP (3.0)
- CS 3670 Network Programming (3.0)
- CS 4470 Artificial Intelligence (3.0)
- CS 4810 TCP/IP Internet Architecture (3.0)
- EENG 2700 Digital Design I (3.0)
- EENG 2705 Digital Design I Lab (1.0)
- EENG 3750 Engineering Analysis (3.0)

AS Pre Major in Computer Science 64 Credits

Graduation Requirements: 50 Credits
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2020 Intermediate Writing—Science and Technology (3.0)
- MATH 1210 Calculus I (5.0)

Footnotes:
- Minimum grade of C- required.

General Education Requirements: 30 Credits
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2020 Intermediate Writing—Science and Technology (3.0)
- MATH 1210 Calculus I (5.0)
- MATH 1220 Calculus II (5.0)
- PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)

Complete the following:
- 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 the following:
- PHYS 2210 Physics for Scientists and Engineers I (3.0)
- PHYS 2220 Physics for Scientists and Engineers II (4.0)
- or PHYS 2225 Physics for Scientists and Engineers II Lab (1.0)

Complete the following:
- CHEM 1210 Principles of Chemistry I (4.0)
- and CHEM 1215 Principles of Chemistry I Laboratory (1.0)
- or BIOL 1610 College Biology I (4.0)
- and BIOL 1615 College Biology I Laboratory (1.0)
- or GEO 1010 Introduction to Geology (3.0)
- and GEO 1015 Introduction to Geology Laboratory (1.0)
- or PHYS 2220 Physics for Scientists and Engineers II (4.0)
- and PHYS 2225 Physics for Scientists and Engineers II Lab (1.0)

Complete the following:
- COMP 301R Digital Lecture Series (1.0)
- CS 1400 Fundamentals of Programming (3.0)
- CS 1410 Object-Oriented Programming (3.0)
- CS 2300 Discrete Structures I (3.0)
- CS 2420 Introduction to Algorithms and Data Structures (3.0)
- CS 2880 Fundamentals of Data Communications (3.0)
- CS 3210 Computer Organization and Architecture (3.0)
- CS 355G Global Social and Ethical Issues in Computing (3.0)
- CS 3690 Advanced Topics in Data Communications (3.0)
- MATH 1220 Calculus II (5.0)
- MATH 2040 Principles of Statistics (4.0)

Emphasis:
Complete one of the following:
- Computer Engineering
- Computer Networking
- Computer Science
- Database Engineering

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 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.
### Emphasis in Computer Engineering  42 Credits

This program is designed to prepare students for careers in the many areas of computer science requiring a knowledge of computer systems hardware, software, device drivers, and peripheral devices. Computer Engineers have strong technical skills and an understanding of and ability to work with both computer hardware and software that are scientific and technical in nature. The degree is designed to prepare students for employment opportunities in the computer industry. Areas of employment include: computer hardware design, systems design, device driver programming, software rapid application development, and software/hardware maintenance. Students are prepared to take industry standard programming certification examinations. The student is responsible for registering for and taking the required certification examinations.

**Emphasis Requirements:** 28 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Minimum grade of C- required in these courses.</td>
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<tr>
<td>CS 4380</td>
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<tr>
<td>Advanced/High-Performance Computer Architecture</td>
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<tr>
<td>EE 2020</td>
<td>1.0</td>
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<tr>
<td>Computer Engineering Problem Solving with Matlab</td>
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<tr>
<td>EENG 2250</td>
<td>3.0</td>
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<tr>
<td>Circuit Theory</td>
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<td>EENG 2255</td>
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<tr>
<td>Circuit Theory Lab</td>
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<td>EENG 2700</td>
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<td>Digital Design</td>
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<td>EENG 2705</td>
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<td>Digital Design I Lab</td>
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<td>EENG 3740</td>
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<tr>
<td>Digital Design II</td>
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<td>EENG 3750</td>
<td>3.0</td>
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<tr>
<td>Engineering Analysis</td>
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<td>EENG 3770</td>
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<td>Signals and Systems</td>
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<tr>
<td>EENG 4760</td>
<td>3.0</td>
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<tr>
<td>Electronics System</td>
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<td>EENG 4765</td>
<td>1.0</td>
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<tr>
<td>Electronics System Lab</td>
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<tr>
<td>EENG 4800</td>
<td>3.0</td>
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<tr>
<td>Computer Engineering Senior Design Project</td>
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</tr>
</tbody>
</table>

### Emphasis Elective Requirements: 14 Credits

Complete 14 credits any CS 3000 or 4000 level course 14.0 not already required. (Minimum of 6 credits must be EENG, minimum of 3 credits must be CS).:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum grade of C- required in these courses.</td>
<td></td>
</tr>
</tbody>
</table>

### Emphasis in Computer Networking  42 Credits

This program provides a net-centric computer science degree with heavy emphasis on Internet architecture and programming. It prepares students for employment opportunities in computer network design and engineering, client and server side web application development, network game programming and mobile device application development.

**Emphasis Requirements:** 27 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum grade of C- required in these courses.</td>
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<tr>
<td>CS 3250</td>
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<tr>
<td>Java Software Development</td>
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<tr>
<td>CS 3320</td>
<td>3.0</td>
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<tr>
<td>Database Theory</td>
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<td>CS 3370</td>
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<td>Internet Software Development</td>
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<td>CS 3370</td>
<td>3.0</td>
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<tr>
<td>Network Programming</td>
<td></td>
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<tr>
<td>CS 4610</td>
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<tr>
<td>TCP/IP Internet Architecture</td>
<td></td>
</tr>
<tr>
<td>CS 4670</td>
<td>3.0</td>
</tr>
<tr>
<td>Undergraduate Research Project for Networking Specialization</td>
<td></td>
</tr>
<tr>
<td>CS 4960</td>
<td>3.0</td>
</tr>
<tr>
<td>Distributed Internet Application Development</td>
<td></td>
</tr>
<tr>
<td>IT 1510</td>
<td>3.0</td>
</tr>
<tr>
<td>Introduction to System</td>
<td></td>
</tr>
<tr>
<td>IT 3510</td>
<td>3.0</td>
</tr>
<tr>
<td>Advanced System Administration--Linux/UNIX</td>
<td></td>
</tr>
</tbody>
</table>

### Emphasis Elective Requirements: 15 Credits

Complete 15 credits from the following any CS 3000 or 4000 level course 15.0 not already required. (Minimum of 6 credits must be upper division). (Minimum grade of C- required in these courses.):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENG 3750</td>
<td>3.0</td>
</tr>
<tr>
<td>Engineering Analysis</td>
<td></td>
</tr>
<tr>
<td>INFO 1510</td>
<td>3.0</td>
</tr>
<tr>
<td>Introduction to System Administration--Linux/UNIX (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

### Emphasis in Database Engineering  42 Credits

This program is designed to prepare students for careers that require in-depth knowledge of Database Systems. Theoretical and practical aspects associated with the design and construction of Database Systems is emphasized. The program covers the fundamentals of Data Modeling, Information Retrieval, Relational/Object/Object/Relational/Object-Oriented Databases, Distributed Databases, Data Warehousing, Data Mining, Database Recovery, Database Security and Data Integrity, as well as other topics.

**Emphasis Requirements:** 27 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum grade of C- required in these courses.</td>
<td></td>
</tr>
<tr>
<td>CS 2450</td>
<td>3.0</td>
</tr>
<tr>
<td>Software Engineering</td>
<td></td>
</tr>
<tr>
<td>CS 3220</td>
<td>3.0</td>
</tr>
<tr>
<td>Rapid Client Server Development with Visual Basic</td>
<td></td>
</tr>
<tr>
<td>or CS 3250</td>
<td>3.0</td>
</tr>
<tr>
<td>Java Software Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>or CS 3260</td>
<td>3.0</td>
</tr>
<tr>
<td>CSharp.NET Software Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>or CS 3370</td>
<td>3.0</td>
</tr>
<tr>
<td>C-plus-plus Software Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 3410</td>
<td>3.0</td>
</tr>
<tr>
<td>Human Factors in Software Engineering</td>
<td></td>
</tr>
<tr>
<td>CS 3520</td>
<td>3.0</td>
</tr>
<tr>
<td>Database Theory</td>
<td></td>
</tr>
<tr>
<td>CS 4100</td>
<td>3.0</td>
</tr>
<tr>
<td>Database Management System</td>
<td></td>
</tr>
<tr>
<td>CS 4500</td>
<td>3.0</td>
</tr>
<tr>
<td>Advanced Topics in Database Engineering</td>
<td></td>
</tr>
<tr>
<td>CS 4600</td>
<td>3.0</td>
</tr>
<tr>
<td>Enterprise Architecture</td>
<td></td>
</tr>
<tr>
<td>INFO 3410</td>
<td>3.0</td>
</tr>
<tr>
<td>Database Systems</td>
<td></td>
</tr>
<tr>
<td>INFO 4410</td>
<td>3.0</td>
</tr>
<tr>
<td>Database Security and Integrity</td>
<td></td>
</tr>
</tbody>
</table>

### Emphasis Elective Requirements: 15 Credits

Complete 15 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum grade of C- required in these courses.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3220</td>
<td>3.0</td>
</tr>
<tr>
<td>Rapid Client Server Development with Visual Basic</td>
<td></td>
</tr>
<tr>
<td>or CS 3250</td>
<td>3.0</td>
</tr>
<tr>
<td>Java Software Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>or CS 3260</td>
<td>3.0</td>
</tr>
<tr>
<td>CSharp.NET Software Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>or CS 3370</td>
<td>3.0</td>
</tr>
<tr>
<td>C-plus-plus Software Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 3540</td>
<td>3.0</td>
</tr>
<tr>
<td>Game Programming (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 3550</td>
<td>3.0</td>
</tr>
<tr>
<td>Internet Software Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 3660</td>
<td>3.0</td>
</tr>
<tr>
<td>Web Server Programming in ASP (3.0)</td>
<td></td>
</tr>
<tr>
<td>CS 3670</td>
<td>3.0</td>
</tr>
<tr>
<td>Network Programming (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum grade of C- required in these courses.</td>
<td></td>
</tr>
</tbody>
</table>

### Emphasis in Software Engineering  123 Credits

#### General Education Requirements: 37 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>3.0</td>
</tr>
<tr>
<td>Introduction to Writing</td>
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</tr>
<tr>
<td>ENGL 2020</td>
<td>3.0</td>
</tr>
<tr>
<td>Intermediate Writing--Science and Technology</td>
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</tr>
<tr>
<td>MATH 1210</td>
<td>5.0</td>
</tr>
<tr>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>American Institutions, complete one of the following:</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>3.0</td>
</tr>
<tr>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 1700</td>
<td>3.0</td>
</tr>
<tr>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>3.0</td>
</tr>
<tr>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>3.0</td>
</tr>
<tr>
<td>American National Government Architecture</td>
<td></td>
</tr>
<tr>
<td>HIST 2700</td>
<td>3.0</td>
</tr>
<tr>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>and HIST 2710</td>
<td>3.0</td>
</tr>
<tr>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>PHIL 2050</td>
<td>3.0</td>
</tr>
<tr>
<td>Ethics and Values</td>
<td></td>
</tr>
<tr>
<td>or PES 1097</td>
<td>2.0</td>
</tr>
<tr>
<td>Fitness for Life (2.0)</td>
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<tr>
<td>Distribution Requirements:</td>
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</tr>
<tr>
<td>HIST 1000</td>
<td>3.0</td>
</tr>
<tr>
<td>Environmental History</td>
<td></td>
</tr>
<tr>
<td>or PHIL 2050</td>
<td>3.0</td>
</tr>
<tr>
<td>Science and Society</td>
<td></td>
</tr>
<tr>
<td>or COM 2110</td>
<td>3.0</td>
</tr>
<tr>
<td>Public Speaking</td>
<td></td>
</tr>
<tr>
<td>or COMM 2110</td>
<td>3.0</td>
</tr>
<tr>
<td>Interpersonal Communication</td>
<td></td>
</tr>
</tbody>
</table>
| Discipline Core Requirements: 59 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 301R</td>
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<tr>
<td>Digital Lecture Series</td>
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</tr>
<tr>
<td>CS 1400</td>
<td>3.0</td>
</tr>
<tr>
<td>Fundamentals of Programming</td>
<td></td>
</tr>
<tr>
<td>or CS 1410</td>
<td>3.0</td>
</tr>
<tr>
<td>Object-Oriented Programming</td>
<td></td>
</tr>
<tr>
<td>or CS 2300</td>
<td>3.0</td>
</tr>
<tr>
<td>Discrete Structures I</td>
<td></td>
</tr>
<tr>
<td>or CS 2420</td>
<td>3.0</td>
</tr>
<tr>
<td>Introduction to Algorithms and Data Structures</td>
<td></td>
</tr>
<tr>
<td>or CS 2450</td>
<td>3.0</td>
</tr>
<tr>
<td>Software Engineering</td>
<td></td>
</tr>
<tr>
<td>or CS 2600</td>
<td>3.0</td>
</tr>
<tr>
<td>Fundamentals of Data</td>
<td></td>
</tr>
<tr>
<td>or CS 2810</td>
<td>3.0</td>
</tr>
<tr>
<td>Computer Organization and Architecture</td>
<td></td>
</tr>
<tr>
<td>or CS 305G</td>
<td>3.0</td>
</tr>
<tr>
<td>Global Social and Ethical Issues in Computing</td>
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</tr>
<tr>
<td>or CS 306G</td>
<td>3.0</td>
</tr>
<tr>
<td>Operating Systems Theory</td>
<td></td>
</tr>
<tr>
<td>or CS 3240</td>
<td>3.0</td>
</tr>
<tr>
<td>Introduction to Computational Theory</td>
<td></td>
</tr>
<tr>
<td>or CS 3250</td>
<td>3.0</td>
</tr>
<tr>
<td>Rapid Client Server Development with Visual Basic</td>
<td></td>
</tr>
<tr>
<td>or CS 3260</td>
<td>3.0</td>
</tr>
<tr>
<td>CSharp.NET Software Development (3.0)</td>
<td></td>
</tr>
<tr>
<td>or CS 3450</td>
<td>3.0</td>
</tr>
<tr>
<td>Principles and Patterns of Software Design</td>
<td></td>
</tr>
<tr>
<td>or CS 3520</td>
<td>3.0</td>
</tr>
<tr>
<td>Database Theory</td>
<td></td>
</tr>
<tr>
<td>or CS 4230</td>
<td>3.0</td>
</tr>
<tr>
<td>Software Testing and Quality Engineering</td>
<td></td>
</tr>
<tr>
<td>or CS 4400</td>
<td>3.0</td>
</tr>
<tr>
<td>Software Engineering II</td>
<td></td>
</tr>
<tr>
<td>or CS 4450</td>
<td>3.0</td>
</tr>
<tr>
<td>Analysis of Programming Languages</td>
<td></td>
</tr>
<tr>
<td>or CS 4550</td>
<td>3.0</td>
</tr>
<tr>
<td>Software Engineering III</td>
<td></td>
</tr>
<tr>
<td>or MATH 2040</td>
<td>4.0</td>
</tr>
<tr>
<td>Principles of Statistics</td>
<td></td>
</tr>
</tbody>
</table>

### Elective Requirements: 27 Credits

Complete 12 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any CS course numbered 3000 or higher not already required</td>
<td></td>
</tr>
<tr>
<td>Complete at least 15 credits (at least 5 must be upper division) in a discipline other than Computer Science.</td>
<td></td>
</tr>
</tbody>
</table>

### Graduation Requirements:

1. Completion of a minimum of 123 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 credits through course attendance at UVU. The minimum 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.
Minor in Computer Science  
**18 Credits**

**Discipline Core Requirements:**  
9 Credits

- **CS 1400** Fundamentals of Programming (CS 1030 recommended)  
3.0
- **CS 1410** Object-Oriented Programming  
3.0
- **CS 2420** Introduction to Algorithms and Data Structures  
3.0

**Elective Requirements:**  
9 Credits

- Complete at least three CS courses numbered 3060 or above  
9.0

**Graduation Requirements:**
- To fill the requirements for a computer science minor students must have no course grade lower than C- in any of the CS courses required for the computer science minor.

BA/BS in Integrated Studies  
**123 Credits**

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

**Emphasis in Computer Science  
18 Credits**

**Emphasis Requirements:**  
18 Credits

- Computer Science Emphasis
- Complete one of the following:  
  3.0
  - **CS 3250** Java Software Development  
    3.0
  - **CS 3370** C-plus-plus Software Development  
    3.0

**Choose 15 credits from the following:**  
15.0

- **CS 3240** Introduction to Computational Theory  
  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.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- COMP, Computing
- CS, Computer Science
- EENG, Electrical Engineering
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.

AAS in Construction Management

**General Education Requirements:** 15 Credits
- ART 1720 Architectural Rendering (3.0)
o substitute another Fine Arts if a drafting or blueprint reading class has already been taken
- COMM 2110 Interpersonal Communication (3.0)
or MATH 1050 College Algebra* (4.0)
or ENGL 1010 Introduction to Writing (3.0)
or PHYS 1010 Elementary Physics (Recommended)
- PHSC 1000 Survey of Physical Science (3.0)

**Discipline Core Requirements:** 44 Credits
- 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 Management and Cost Accounting Concepts (4.0)
- BIT 1010 Building Codes (3.0)
or BIT 1230 Plan Review (3.0)
- DGM 2010 Business Computer Proficiency (3.0)
or DGM 2360 Spreadsheet Applications (3.0)
or DGM 2370 Database Applications (3.0)
or ECON 1010 Economics as a Social Science (3.0)
or ECON 2020 Macroeconomics (3.0)
- EGDT 1400 Surveying (3.0)
- GEO 1010 Introduction to Geology (3.0)
- CMGT 1010 Introduction to Construction Management (3.0)
- CMGT 1150 Construction Safety (3.0)
- CMGT 1160 Building Information Modeling (Preferred)
or EGDT 1020 3D Architectural Modeling (3.0)
or CMGT 1190 Concrete and Framing Lab (3.0)
or CMGT 1220 Finishing Lab (3.0)
or BCCM 281R Cooperative Work Experience (2 credits) (1.0)
and BCCM 285R Calculus and Correlated Class (1.0)
or CMGT 2010 Construction Materials and Methods I (3.0)
or EGDT 2730 Special Problems—Civil Drafting (2.0)
or CMGT 3000 Principles of Construction (3.0)
or CMGT 3040 Construction Job Site Management (3.0)
or CMGT 399R Student Professional Organization (must be repeated) (0.5)
or TECH 301R Technology Lecture Series (1.0)

**Elective Requirements:** 4 Credits
Complete 4 credits of advisor-approved courses

**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 UCCU.
4. Complete all core requirements with a minimum grade of C—or better.

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**BS in Construction Management**

**General Education Requirements:** 35 Credits
- ENGL 1010 Introduction to Writing (3.0)
or ENGL 2010 Intermediate Writing—Humanities/Social Sciences (3.0)
or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
or MATH 1030 Quantitative Reasoning (3.0)
or MATH 1040 Introduction to Statistics (Recommended) (3.0)
Complete one of the following:
- HIST 1700 American Civilization (3.0)
or HIST 1740 US Economic History (3.0)
or HIST 2700 US History to 1877 (3.0)
or histo 2710 US History since 1877 (3.0)
or POLS 1000 American Heritage (3.0)
or POLS 1100 American National Government (3.0)
Complete the following:
- PHIIL 2050 Ethics and Values (3.0)
or HLTH 1100 Personal Health and Wellness (2.0)
or PES 1097 Fitness for Life (2.0)

**Distribution Courses**
- ART 1720 Architectural Rendering (3.0)
or COMM 1020 Public Speaking (Highly Recommended) (3.0)
or COMM 2110 Interpersonal Communication (Highly Recommended) (3.0)
or GEO 1010 Introduction to Geology (Highly Recommended) (3.0)
or PHYS 1010 Elementary Physics (Highly Recommended) (3.0)
or Biology Distribution (3.0)

**Discipline Core Requirements:** 78 Credits
- ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
or ACC 2010 Financial Accounting (3.0)
or ACC 2020 Managerial Accounting (3.0)
or BIT 1010 Building Codes (3.0)
or BIT 1230 Plan Review (3.0)
or CMGT 1010 Introduction to Construction Management (3.0)
or CMGT 1150 Construction Safety (3.0)
or CMGT 1160 Construction Safety (3.0)
or CMGT 1190 Concrete and Framing Lab (3.0)
or CMGT 1220 Finishing Lab (3.0)
or BCCM 281R Cooperative Work Experience (2 credits minimum) (1.0)
or BCCM 285R Calculus and Correlated Class (1.0)
or CMGT 1020 Construction Materials and Methods I (3.0)
or CMGT 2010 Construction Materials and Methods II (3.0)
or CMGT 3000 Principles of Construction (3.0)
or CMGT 399R Student Professional Organization (Recommended) (Must be repeated during each year of study or combined with TECH 301R for a total of two (2) credits minimum toward graduation). (0.5)
or TECH 301R Technology Lecture Series (must be repeated or combined with CMGT 399R for a total of 2 credits) (1.0)
or CMGT 4010 Construction Documents (Recommended) (3.0)
or LEGL 3000 Business Law (3.0)
or LEGL 3140 Real Estate Law (3.0)
or CMGT 489R Internship (1.0)
or CMGT 4500 Senior Capstone Project (3.0)
or DGM 2130 Business Computer Proficiency (3.0)
or DGM 2360 Spreadsheet Applications (3.0)
or DGM 2370 Database Applications (3.0)
or ECON 1010 Economics as a Social Science (3.0)
or ECON 2010 Microeconomics (3.0)
Construction Management

ECON 2020  Macroeconomics (3.0)
- CMGT 1160  Building Information Modeling  (Highly recommended)  3.0
or
EGDT 1020  3D Architectural Modeling (3.0)
or
EGDT 2500  Land Development I (3.0)
or
EGDT 2730  Special Problems--Civil Drafting (2.0)
- EGDT 1400  Surveying  4.0
- EGDT 1600  Technical Math--Algebra  3.0
- EGDT 1610  Technical Math--Geometry/Trig  3.0
- MGMT 2200  Business Communication  3.0
- MGMT 3010  Principles of Management  3.0
- TECH 3400  Project Management  3.0
- TECH 405G  Global Ethical and Professional Issues in Technology  3.0

Elective Requirements:  9 Credits
Choose 9 credits from the following
- Upper division Woodbury School of Business courses.
- Upper division Technology Management course
- Other upper division Technical Specialty course as approved by Department Chair
- Any upper-division CMGT course not already completed

Graduation Requirements:
1. Completion of a minimum of 122 semester hours
2. Overall grade point average of 2.0 (C) or above
3. No grade lower than a C- in any Discipline Core or Elective course
4. Completion of GE and specified departmental 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

BS in Technology Management 125 Credits

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Construction Management 45 Credits

Emphasis Requirements:  45 credits
- BIT 1020  Residential Codes  3.0
or
BIT 1010  Building Codes (3.0)
- CMGT 1160  Building Information Modeling  (Highly recommended)  3.0
or
EGDT 1020  Principles of Construction Scheduling (3.0)
or
EGDT 1100  Architectural Drafting (3.0)
or
EGDT 1090  Introduction to Architecture Drafting (3.0)
- EGDT 1400  Surveying  4.0
- CMGT 1010  Introduction to Construction Management  3.0
- CMGT 2010  Construction Materials and Methods II  3.0
- CMGT 3000  Principles of Construction Scheduling  3.0
- CMGT 3030  Principles of Construction Estimating  3.0
- CMGT 3040  Construction Job Site Management  3.0
- Select 20 credits from BCCM, BIT, CMGT, EGDT, GIS, SURV, or similar transfer credits as approved by TM advisor.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- CMGT, Construction Management
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.

PROGRAMS

Students in Criminal Justice may receive certification in the Utah 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.

ADMISSION REQUIREMENTS

In addition to applying for admission to Utah Valley University, Criminal Justice students must meet the following admission requirements:

1. Submit Compass Test scores to the Criminal Justice advisor for evaluation. Applicants who score below the required level must register for additional courses in English, reading and/or math.
2. Meet with the Criminal Justice/Law Enforcement advisor.

Law Enforcement Academy

Director: Steve DeMille
Office: GT 606B
Telephone: 801-863-8062
Cell: 801-319-1588
E-mail: demillst@uvu.edu

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.

Law Enforcement Academy Certification

Prior to applying for the Utah Valley University Law Enforcement Academy (UVU-LEA), the student must pass the National Police Officer Selection Test. Call 863-8269 for an appointment to take the test.

Module 1, SFO Block, is offered twice each year in June and again in September. Module 2, LEO Block, is offered twice each year in January and March. Contact Steve DeMille at 801-863-8062 or stop by the Criminal Justice/Law Enforcement Department in GT 608.
• Humanities Distribution 3.0
• Fine Arts Distribution 3.0
• Social/Behavioral Sciences 3.0

Discipline Core Requirements: 68 Credits
• BESC 3010 Statistics for the Behavioral Sciences 4.0
• CJ 1010 Introduction to Criminal Justice 3.0
• CJ 1340 Criminal Investigations 3.0
• CJ 1335 Introduction to Forensic Science 3.0
• CJ 1300 Introduction to Corrections Process 3.0
• CJ 1310 Criminal Law 3.0
• CJ 2330 Juvenile Justice 3.0
• CJ 2350 Laws of Evidence 3.0
• CJ 3270 Criminology 3.0
• CJ 3300 Victimology 3.0
• CJ 3400 Drugs and Crime 3.0
• SOC 3010 Statistics for the Behavioral Sciences 4.0
• CJ 4160 Constitutional Rights and Responsibilities 3.0
• CJ 4200 Ethical Issues in Criminal Justice 3.0
• CJ 4250 Criminal Justice Career Strategies 1.0
• CJ 4700 Comparative Criminal Justice Systems 3.0
• CJ 4880 Qualitative Research Methods in Criminal Justice 3.0
• CJ 4990 Criminal Justice Senior Seminar 3.0
• DGM 2010 Business Computer Proficiency 3.0

or Business Proficiency Exam

Choose one of the three options below: 15.0

Law Enforcement Option
• CJ 1390 Police Field Operations (3.0)
• CJ 3102 Criminal Justice Management (3.0)
• CJ 3040 Community Policing (3.0)
• CJ 3390 Traffic Operations (3.0)

Electives (choose from upper-division CJ courses) 12.0

Corrections Option
• CJ 3102 Criminal Justice Management (3.0)
• CJ 3960 Corrections in the Community (3.0)
• CJ 3140 Corrections Law (3.0)
• CJ 3360 Prisons—Contemporary Issues and Dilemmas (3.0)

Electives (choose from upper-division CJ courses) 15.0

Criminal Law Option

Upper-division LEGL courses

Elective Requirements: 17 Credits
• Complete any 1000 course or higher 17.0

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.

Footnotes:
• Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher on each module or complete the DGM 2010 course or DGM 201A-D modules as necessary with a score of 80 percent or higher on each module.

BS in Forensic Science 121 Credits

General Education Requirements: 38 Credits
• ENGL 1010 Introduction to Writing 3.0
• ENGL 2020 Intermediate Writing—Science and Technology 3.0
• MATH 1050 College Algebra 4.0

Complete one of the following: 3.0
• HIST 1700 American Civilization (3.0)
• HIST 2710 US History to 1877 (3.0)
and HIST 2710
• HIST 1740 US Economic History (3.0)
• POLS 1000 American Heritage (3.0)
• POLS 1100 American National Government (3.0)

Complete the following: 3.0
• PHIL 2050 Ethics and Values
• HLTH 1100 Personal Health and Wellness (2.0)
or PES 1007 Fitness for Life 2.0

Distribution Courses:
• BIOL 1010 General Biology 3.0

• CHEM 1210 Principles of Chemistry I 4.0
• CHEM 1220 Principles of Chemistry II 4.0
• COMM 1520 Public Speaking (Recommended for Humanities Distribution)
• ART 1050 Photography I (Recommended for Fine Arts Distribution)
• CJ 1010 Introduction to Criminal Justice 3.0

Discipline Core Requirements: 64 Credits

Forensic Science Foundational Courses:
• CJ 1330 Criminal Law 3.0
• CJ 1340 Criminal Investigations 3.0
• CJ 1350 Introduction to Forensic Science 3.0

Electives (choose from upper-division CJ courses) 40.0

Minor in Forensic Science 24 Credits

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 12 Credits
• FSCI 3400 Criminalistics 3.0
• FSCI 3500 Footwear Impression Evidence 3.0
or FSCI 3520 Tissue Imprint Evidence (3.0)
• FSCI 3700 Fingerprint Examination I 3.0
• FSCI 3720 Fingerprint Examination II 3.0

Elective Requirements: 12 Credits
• Complete 12 credits from any upper-division Criminal Justice or Forensic Science courses or INFO 4800

Graduation Requirements:
1. Overall grade point average of 2.5 in all CJ courses.

Minor in Criminal Justice 24 Credits

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 12 Credits
• CJ 1340 Criminal Investigations 3.0
• CJ 1330 Criminal Law 3.0
• CJ 2350 Laws of Evidence 3.0

Elective Requirements: 12 Credits
• Complete 12 credits from any CJ upper-division courses and no grade lower than a C- in CJ specialty core and elective courses.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- CJ, Criminal Justice
- FSCI, Forensic Science
The graduates of the Institute are in high demand and are recruited by owners and managers of well-known facilities throughout the country.

PROGRAMS
An Associate in Applied Science Degree in Culinary Arts is offered. A Bachelor of Science Degree in Technology Management is available for students seeking a four-year degree. A Bachelor of Science Degree in Hospitality Management with a Food and Beverage specialization is also available through the College of Technology. See the appropriate sections of the UVU catalog for required courses and details. (See Graduation Requirements in catalog for definitions.)

Enrollment in the Culinary Arts Institute is limited. Permission is required to enroll in cooking classes.

AAS in Culinary Arts

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 0990.
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 3.0

MATHEMATICS
- ACC 2010 Financial Accounting 3.0

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
- PHIL 2050 Ethics and Values (or any approved Humanities/Fine Arts/Foreign Language) 3.0

SOCIAL AND BEHAVIORAL SCIENCE
- MGMT 3000 Organizational Behavior (or any approved Social and Behavioral Science) 3.0

BIOLOGY OR PHYSICAL SCIENCE
- CA 1150 Nutrition and Food Service 3.0

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
- CA 1490 Food Service Sanitation (or PES 1097, or HLTH 1100) 1.0

Discipline Core Requirements: 52 Credits

- CA 1120 Cooking Skills Development 4.5
- CA 1140 Professional Dining Room Services 1.0
- CA 1160 Culinary Math 1.0
- CA 1770 Pastry and Baking Skills 4.5
- CA 1180 Professional Kitchen Garde Manger 4.5
- CA 1230 Professional Kitchen I--Cooking 4.5
- CA 1260 Culinary Spanish 1.0
- CA 1310 Purchasing and Storeroom Management 3.0
- CA 1320 Culinary Management 3.0
- CA 2120 Professional Kitchen II--Restaurant 4.5
- CA 2130 Advanced Pastry Baking 4.5
- CA 2450 Menu Design 2.0
- CA 282R Culinary Arts Internship (1.0) 8.0
- HM 1010 Introduction to Hospitality Industry 3.0
- HM 3640 Food and Beverage Controls 3.0

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 “D-” 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 Institute

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- CA, Culinary Arts
### Dance

**Department Chair:** Nichole Ortega  
Office: GT 675m  
Telephone: 801-863-8610  
Administrative Assistant: Elaine Miner  
Telephone: 801-863-8610

**Faculty:**  
- Professor  
  - Kathie Debenham  
  - Mark Borchelt  
  - Nichole Ortega  
  - Kim Strunk  
  - Doris Trujillo  
  - Angela Banchero-Kelleher  
  - Amy Markgraf-Jacobson  
- Associate Professor  
  - Jacqueline Colledge  
- Lecturer  
  - Shayla Bott  
  - Christopher Witt  
- Artist in Residence  
  - Scott Asbell

**School of the Arts**  
Dean: K. Newell Dayley  
Office: GT 605a  
Telephone: 801-863-7359

**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 develop 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.

**PROGRAMS**  
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. The Department also offers a Ballet, Ballroom or Modern Dance emphasis in Integrated Studies. 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 skill as they study dance in relationship to the self, society, and other arts and disciplines.

### PERFORMING OPPORTUNITIES**  
A variety of student, pre-professional and professional companies within the department provide excellent local, national and international performing opportunities for dance majors. Concerts are presented in formal and informal as well as, adjudicated settings. Membership in companies is by audition only.

### CAREER OPTIONS**  
Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), professional performers and choreographers, dance historians and critics, administrators, dance therapists, professionals in the field of somatics, researchers, notators, movement analysts private studio owners, and health and fitness consultants.

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### AS Pre Major in Dance - 62 Credits

**General Education Requirements:** 35 Credits  
- ENGL 1010 Introduction to Writing  
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences  
- ENGL 2020 Introduction to Writing—Science and Technology  

Complete one of the following:  
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors)  
- MATH 1040 Introduction to Statistics (recommended for Social Sciences majors)  
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors)  

Complete one of the following:  
- HIST 2700 US History since 1877 (3.0)  
- HIST 2710 US History from 1500 (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  
- HLTH 1100 Personal Health and Wellness (2.0)  
- or PES 1097 Fitness for Life  

**Distribution Courses:**  
- Biology (BIOL 1010 recommended)  
- Physical Science  
- Additional Biology or Physical Science (ZOOL 1010 recommended)  
- Humanities Distribution  
- DANC 2110 Orientation to Dance  
- Social/Behavioral Science  

**Discipline Core Requirements:** 23 Credits  
- DANC 1160 Music for Dancers  
- DANC 127R Ballet Technique I (2 semesters)  
- DANC 1330 Studio Workshop—Creative Process in Dance  
- DANC 1433 Modern Dance Technique and Theory I  
- DANC 144R Modern Dance Technique and Theory II  
- DANC 1510 Intermediate Jazz Dance  
- DANC 1610 Dance Conditioning  
- DANC 2330 Improvisation  
- DANC 2349 Composition  
- DANC 265R Fundamentals of Movement  
- DANC 2670 Introduction to Laban Studies

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### Elective Requirements: 4 Credits

Complete 4 credits from the following:  
- DANC 1520 Folk Dance I (1.0)  
- DANC 1530 Folk Dance II (1.0)  
- DANC 1540 Clogging I (1.0)  
- DANC 1560 African Dance I (1.0)  
- DANC 1580 Tap Dance I (1.0)  
- DANC 1620 Polynesian Dance I (1.0)  
- DANC 1700 American Social Dance I (1.0)  
- DANC 1710 International Ballroom Dance I (1.0)  
- DANC 1712 Latin Ballroom Dance I (1.0)  
- DANC 1760 Country Western Dance I (1.0)  
- DANC 1790 Country Western Dance II (1.0)  
- DANC 221R Dance II (1.0)  
- DANC 2250 Character Dance I (1.0)  
- DANC 2260 Character Dance II (1.0)  
- DANC 227R Ballet Technique II (3.0)  
- DANC 243R Modern Dance Technique and Theory I (3.0)  
- DANC 244R Modern Dance Technique and Theory II (3.0)  
- DANC 247R Repertory I (1.0)  
- DANC 250R Advanced Jazz Dance (2.0)  
- DANC 2560 African Dance II (1.0)  
- DANC 2700 American Social Dance II (1.0)  
- DANC 2710 International Ballroom Dance II (1.0)  
- DANC 2720 Latin Ballroom Dance II (1.0)  
- DANC 276R Ballroom Dance Company Back-Up Team (1.0)  
- DANC 327R Ballet Technique III (3.0)  
- DANC 346R Modern Dance Performance (2.0)  
- DANC 370R American Social Dance III (1.0)  
- DANC 371R International Ballroom Dance III (1.0)  
- DANC 372R Latin Ballroom Dance III (1.0)  
- DANC 376R Ballroom Dance Company Tour Team (2.0)  
- DANC 429R Utah Regional Ballet Repertory (2.0)  
- DANC 476R Ballroom Dance Company Tour Team (2.0)

**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.

### BS in Dance with an Emphasis in Ballroom Dance - 120 Credits

**Matriculation Requirements:**  
1. Completion of DANC 2700, DANC 2710, DANC 2720, DANC 2712, 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  
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences  
- ENGL 2020 Intermediate Writing—Science and Technology  

Choose one of the following:  
- MATH 1030 Quantitative Reasoning (3.0)  
- MATH 1040 Introduction to Statistics (3.0)  
- MATH 1050 College Algebra (4.0)  

**Distribution Courses:**  
- Biology (BIOL 1010 recommended)  
- Physical Science  
- Additional Biology or Physical Science (ZOOL 1010 recommended)  
- Humanities Distribution  
- DANC 2110 Orientation to Dance  
- or Social/Behavioral Science

**Discipline Core Requirements:** 23 Credits  
- DANC 1160 Music for Dancers  
- DANC 127R Ballet Technique I (2 semesters)  
- DANC 1330 Studio Workshop—Creative Process in Dance  
- DANC 1433 Modern Dance Technique and Theory I  
- DANC 144R Modern Dance Technique and Theory II  
- DANC 1510 Intermediate Jazz Dance  
- DANC 1610 Dance Conditioning  
- DANC 2330 Improvisation  
- DANC 2349 Composition  
- DANC 265R Fundamentals of Movement  
- DANC 2670 Introduction to Laban Studies

Choose one of the following:  
- PHIL 2050 Ethics and Values  
- HLTH 1100 Personal Health and Wellness  
- or PES 1097 Fitness for Life

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**Additional Biology or Physical Science (ZOOL 1010 recommended)  
- Humanities Distribution  
- DANC 2110 Orientation to Dance  
- Social/Behavioral Science

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**Elective Requirements:** 10 Credits  
- ENGL 2010 Introduction to Writing  
- ENGL 2020 Intermediate Writing—Ivory  

**Distribution Courses:**  
- BIOL 1010 General Biology (strongly recommended for Biology Distribution course)

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**Utah Valley University**
Discipline Core Requirements: 40 Credits

- **DANC 2110** Orientation to Dance (Fine Arts) 3.0
- **Humanities Distribution** 3.0
- **DANC 3560** Choreography 3.0
- **Physical Science** 3.0
- **ZOOL 1090** Introduction to Human Anatomy and Physiology (Fulfills additional Biology or Physical Science) 3.0

BS in Dance Education 125 Credits

Matriculation Requirements: Dance Department matriculation requirements:
1. Completion of DANC 1160, DANC 143R, DANC 144R, DANC 1510, DANC 227R, and DANC 2330 with a B- or higher.
2. Pass audition, interview, and portfolio review with faculty members.
3. Cumulative GPA of 2.75 or higher.

Completion of all General Education requirements and required professional education courses.
4. An interview directed by the Teacher Education Selection and Recommendations Committee.
5. Pass criminal background check.

General Education Requirements: 35 Credits

Choose one of the following:
- **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)

Complete one of the following:
- **MATH 1030** Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- **MATH 1040** Introduction to Statistics (recommended for Social Science or Social Science majors) (3.0)
- **MATH 1050** College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

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 National Government (3.0)

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 point average of 2.75 or above.
4. Completion of GE and specified departmental requirements.

Discipline Core Requirements: 90 Credits

- **DANC 1160** Music for Dancers (3.0)
- **DANC 127R** Ballet Technique I (3.0)
- **DANC 143R** Modern Dance Technique and Theory I (3.0)
- **DANC 144R** Modern Dance Technique and Theory II (3.0)
- **DANC 1510** Intermediate Jazz Dance (1.0)
- **DANC 227R** Ballet Technique II (3.0)
- **DANC 2330** Composition (2.0)
- **DANC 243R** Modern Dance Technique and Theory I (3.0)
- **DANC 265R** Fundamentals of Movement (2.0)
- **DANC 2670** Introduction to Laban Studies (2.0)
- **DANC 2700** American Social Dance II (1.0)
- **DANC 3140** Dance Production and Lighting (2.0)
- **DANC 3680** Ballet Technique I (3.0)
- **DANC 3900** Choreography (3.0)
- **DANC 4360** Senior Capstone I (2.0)
- **DANC 436R** Senior Capstone II (2.0)
- **DANC 4430** Dance Teaching Practicum (3.0)
- **DANCED 4440** Dance Education Methods (3.0)
- **DANCED 4450** Multicultural Instruction ESL (3.0)
- **DANCED 4550** Secondary Curriculum Instruction and Assessment (3.0)
- **EDSC 4850** Student Teaching—Secondary (4.0)
- **EDSP 3400** Exceptional Students (2.0)

BFA in Dance 120 Credits

Matriculation Requirements: 1. Completion of DANC 2110 and DANC 2330 with a B- or higher.
2. Ballet emphasis: Completion of DANC 227R (2 semesters), with a grade of B- or better.
3. Modern emphasis: Completion of DANC 143R and DANC 144R with a B- or better.
4. Pass audition, interview, and portfolio review with faculty members.
5. Cumulative GPA of 2.75 or higher.

General Education Requirements: 35 Credits

Choose one of the following:
- **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)

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:
- **BIOL 1010** General Biology (Strongly recommended) (3.0)
- **DANC 2110** Orientation to Dance (Fine Arts) (3.0)
- **DANC 227R** Ballet Technique II (3.0)
- **DANC 265R** Fundamentals of Movement (2.0)
- **DANC 2670** Introduction to Laban Studies (2.0)
- **DANC 2700** American Social Dance II (1.0)
- **DANC 3140** Dance Production and Lighting (2.0)
- **DANC 3680** Ballet Technique I (3.0)
- **DANC 3900** Choreography (3.0)
- **DANC 4360** Senior Capstone I (2.0)
- **DANC 436R** Senior Capstone II (2.0)
- **DANC 4430** Dance Teaching Practicum (3.0)
- **DANCED 4440** Dance Education Methods (3.0)
- **DANCED 4450** Multicultural Instruction ESL (3.0)
- **DANCED 4550** Secondary Curriculum Instruction and Assessment (3.0)
- **EDSC 4850** Student Teaching—Secondary (4.0)
- **EDSP 3400** Exceptional Students (2.0)
DANCE 144R  Modern Dance Technique and Theory I  3.0
DANC 1510  Intermediate Jazz Dance  1.0
or  DANC 250R  Advanced Jazz Dance (2.0)
DANC 1610  Dance Conditioning  1.0
DANC 2330  Improvisation  1.0
DANC 2340  Composition  2.0
DANC 265R  Fundamentals of Movement  2.0
DANC 267T  Introduction to Laban Studies  2.0
DANC 3140  Dance Production and Lighting  2.0
DANC 356G  World Dance Forms  3.0
DANC 3630  Dance History  3.0
DANC 3680  Dance Kinesiology  4.0
DANC 4350  Senior Capstone I  1.0
DANC 4360  Senior Capstone II  2.0
DANC 4880  Current Issues in Dance  3.0
Emphasis:
Complete one of the following:
• Ballet Emphasis  46.0
• Modern Dance Emphasis  45.0

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.

Emphasis in Ballet  46 Credits
Emphasis Requirements:  24 Credits
• DANC 221R  Pointe I (2 semesters required)  2.0
or  DANC 222R  Ballet Technique and Theory I for Men (2 semesters required) (1.0)
DANC 2250  Character Dance I  1.0
DANC 2260  Character Dance II  1.0
DANC 3150  Music for Ballet Dancers  2.0
DANC 321R  Pointe III (2 semesters required)  2.0
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 421R  Pointe IV (2 semesters required)  2.0
or  DANC 423R  Pointe V (2 semesters required) (1.0)
DANC 424R  Pas de deux (2 semesters required)  2.0
DANC 425R  Repertory Ensemble (4 semesters required total) (2.0)
or  DANC 429R  Utah Regional Ballet Repertory (4 semesters required total) (2.0)
DANC 3340  Ballet Choreography  2.0
DANC 427R  Ballet Technique IV (2 semesters required total) (3.0)
or  DANC 428R  Ballet Technique V (2 semesters required total) (3.0)
Emphasis Elective Requirements:  12 Credits
Choose 12 credits from the following list:
• DANC 1580  Tap Dance (1.0)
• DANC 1600  Hip-Hop II (1.0)
• DANC 1700  American Social Dance I (1.0)
• DANC 1710  International Ballroom Dance I (1.0)
• DANC 1720  Latin Ballroom Dance I (1.0)
• DANC 2560  African Dance II (1.0)
• DANC 327R  Ballet Technique III (3.0)
• 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 442R  Modern Dance Technique and Theory IV (3.0)
• DANC 446R  Contemporary Dance Ensemble (2.0)
• Any DANC course not previously taken.

Emphasis in Modern Dance  45 Credits
Emphasis Requirements:  33 Credits
• DANC 243R  Modern Dance Technique and Theory I  3.0
• DANC 244R  Modern Dance Technique and Theory II  3.0
• DANC 3160  Dance Accompaniment  2.0
• DANC 3330  Modern Dance Workshop  2.0
• DANC 3350  Choreography  2.0
• DANC 3400  Dance in the Elementary School  2.0
• DANC 341R  Modern Dance Technique and Theory III  3.0
• DANC 342R  Modern Dance Technique and Theory III  3.0
• DANC 3450  Modern Dance Teaching Methods  3.0
• DANC 346R  Modern Dance Performance  2.0
• DANC 369R  Advanced Fundamentals of Movement  2.0
• DANC 3670  Movement Analysis (3.0)
or  DANC 441R  Modern Dance Technique and Theory IV (3.0)
• DANC 442R  Modern Dance Technique and Theory IV  3.0

Emphasis Elective Requirements:  12 Credits
Choose 12 credits from the following list:
• DANC 1580  Tap Dance (1.0)
• DANC 1600  Hip-Hop II (1.0)
• DANC 1700  American Social Dance I (1.0)
• DANC 1710  International Ballroom Dance I (1.0)
• DANC 1720  Latin Ballroom Dance I (1.0)
• DANC 2560  African Dance II (1.0)
• DANC 327R  Ballet Technique III (3.0)
• 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 442R  Modern Dance Technique and Theory IV (3.0)
• DANC 446R  Contemporary Dance Ensemble (2.0)
• Any DANC course not previously taken.

BA/BS in Integrated Studies  123 Credits

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Modern Dance  20 Credits
Emphasis Requirements:  20 Credits
Prerequisites:
• DANC 1330  Studio Workshop--Creative Process in Dance (1.0)
• DANC 2110  Orientation to Dance (3.0)
• DANC 2670  Introduction to Laban Studies (2.0)
Complete the following:
• DANC 2340  Composition  2.0
• DANC 356G  World Dance Forms  3.0
• DANC 3630  Dance History  3.0
• DANC 3670  Movement Analysis  3.0
• DANC 4880  Current Issues in Dance  3.0
Complete 6 credits from the following classes:
• DANC 143R  Modern Dance Technique and Theory I (3.0)
• DANC 144R  Modern Dance Technique and Theory II (3.0)
• DANC 243R  Modern Dance Technique and Theory I (3.0)
• DANC 244R  Modern Dance Technique and Theory II (3.0)
• DANC 341R  Modern Dance Technique and Theory III (3.0)
• DANC 342R  Modern Dance Technique and Theory IV (3.0)
• DANC 441R  Modern Dance Technique and Theory IV (3.0)
• DANC 442R  Modern Dance Technique and Theory IV (3.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- DANC, Dance

BA/BS in Integrated Studies  123 Credits

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Ballroom Dance  20 Credits
Emphasis Requirements:  20 Credits
Prerequisites (see advisor):
• DANC 1330  Studio Workshop--Creative Process in Dance (1.0)
• DANC 2110  Orientation to Dance (3.0)
• DANC 2670  Introduction to Laban Studies (2.0)
Complete the following:
• DANC 2340  Composition  2.0
• DANC 356G  World Dance Forms  3.0
• DANC 3630  Dance History  3.0
• DANC 3670  Movement Analysis  3.0
• DANC 4880  Current Issues in Dance  3.0
Complete 6 credits from the following classes:
• DANC 227R  Ballet Technique II (3.0)
• DANC 327R  Ballet Technique III (3.0)
• DANC 427R  Ballet Technique IV (3.0)
• DANC 428R  Ballet Technique V (3.0)

BA/BS in Integrated Studies  123 Credits

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)
Dental Hygiene

Department Chair: George Veit
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Advisor: George Veit

Faculty:
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Clinic Secretary:
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Advisory Committee: Melinda Tate RDH, Karen Preston RDH, Christina Veit RDH, Alexander Larsen DDS, George Veit DDS MS, Kristen Kinateder BS, Sam Rushforth, Ph.D, Relia Christensen RDH, Ph.D., George Bailey DDS, Dee Webb, RDH, John Gerhauser RDH.

College of Science and Health
Dean: Sam Rushforth
Office: PS 201a
Telephone: 801-863-8980

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 Dental Hygiene department currently offers two programs leading to the following degrees: 1) Associate in Applied Science in Dental Hygiene and 2) a Bachelor Degree 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 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 prerequisite 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 transferable to the USHE higher education system.

The AAS Dental Hygiene Program at UVU has been granted accreditation status of “approval without reporting requirements” (resulting from their recent site visit in 2007), 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.

2. Negative Mantoux for tuberculosis; negative chest x-ray if Mantoux is contra indicated/ positive.

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 individuals with AIDS, ARC, or HIV insofar as the safety of others is not in question. College policy is not to test students, faculty or staff for the AIDS virus. See Policy A-9.1 for full college policy. State Licensure requirements may consider health status. Applicants with questions regarding Licensure policies should contact the licensing division of the state(s) in which they intend to seek Licensure following graduation.

Costs for the AAS Dental Hygiene program include a $2,675 program fee per semester for 4 semesters, in addition to UVU tuition and laboratory fees (these costs are subject to change). Students are required to purchase their own dental instruments, some clinical supplies, and uniforms. Students are responsible for transportation to the MATC clinic and other clinical sites, as well as other field experiences and any state, regional or national boards and licensing.

The AAS Dental Hygiene program is challenging academically and in the amount of time involved on campus and at clinical experiences. Students should plan for some evening and weekend clinical experiences in dental hygiene courses. Students will provide patient care in a clinical setting. While volunteer patients come to the clinic for treatment, students should seek patients for some clinical experiences, and are ultimately responsible for obtaining their clinical patients.

The BS Dental Hygiene program does not entail a special fee. Students in either the AAS or BS program will be informed of additional departmental policies following admission to the program.

ADMISSION REQUIREMENTS
Admission to UVU does not constitute admission to any of the Dental Hygiene Programs. Admission to the Dental Hygiene Program requires a separate and competitive admission process.

For specific admission criteria, please contact the Department of Dental Hygiene at 801-863-7536 or e-mail request for information to henderjo@uvu.edu or see our departmental website http://www.uvu.edu/csh/dental/.

All applicants will be notified by mail of their admission status. No telephone or in-person requests for admission status will be answered. Students not admitted for the semester of application must reapply for the next application period and compete with the new pool for admission. There is no waiting list for either program.

Transfer of Credits
For information regarding the transfer of credits from other institutions of higher learning for general education and required courses other than Dental Hygiene, please contact the Graduation and Transfer Services office (AD 114, telephone 883-8438). For Dental Hygiene courses, contact the Department of Dental Hygiene after you have been notified of acceptance into the AAS program.

DEGREE
The Department of Dental Hygiene reserves the right to modify the curriculum as needed to meet
Dental Hygiene

accreditation requirements and changes in the profession.

The following degree requirements are valid only for students accepted into the Dental Hygiene program Fall 2010. Contact the Dental Hygiene department advisor for Fall 2010 requirements.

PROGRAM

AAS in Dental Hygiene 61 CREDITS Matriculation Requirements:
1. Complete MATH 1052, ENGL 1010, CHEM 1110, ZOOL 2320/ZOOL 2325 and ZOOL 2420/ZOOL 2425.
2. General Education Requirements: 20 Credits
   - ENGLISH
     - ENGL 1010 Introduction to Writing 3.0
   - MATHEMATICS
     - MATH 1050 College Algebra 4.0
     - PHIL 205G Ethics and Values (strongly suggested) 3.0
   - SOCIAL AND BEHAVIORAL SCIENCE
     - HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
       - PHIL 205G Ethics and Values (strongly suggested) 3.0
   - BIOLOGY OR PHYSICAL SCIENCE
     - MICR 2060 Microbiology for Health Professions 3.0
     - MICR 2065 Microbiology for Health Professions Laboratory 1.0
   - PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
     - NUTR 1020 Foundations of Human Nutrition 3.0
   - Complete the following: 48 Credits
     - DENT 1010 Dental Hygiene I 3.0
     - DENT 1015 Dental Hygiene I Preclinical lab 2.0
     - DENT 1020 Oral Anatomy and Physiology 4.0
     - DENT 1030 Dental Materials 2.0
     - DENT 1040 Dental Hygiene II 3.0
     - DENT 1045 Dental Hygiene II Clinical 3.0
     - DENT 1050 Clinical Dental Radiography 1.0
     - DENT 1055 Clinical Dental Radiography Lab 1.0
     - DENT 1060 General and Oral Pathology 3.0
     - DENT 2020 Dental Pharmacology 3.0
     - DENT 2060 Community Dental Hygiene 3.0
     - DENT 3010 Dental Hygiene III 2.0
     - DENT 3015 Dental Hygiene III Clinical 4.0
     - DENT 3030 Periodontology 3.0
     - DENT 3040 Dental Hygiene IV 2.0
     - DENT 3045 Dental Hygiene IV Clinical 4.0
     - DENT 3050 Dental Hygiene Seminar 1.0
     - CHEM 1110 Elementary Chemistry for the Health Sciences 4.0
     - COMM 1050 Introduction to Speech Communication 3.0
     - PSY 1010 General Psychology 3.0
     - ZOOL 2320 Human Anatomy 3.0
     - ZOOL 2325 Human Anatomy Laboratory 1.0
     - ZOOL 2420 Human Physiology 3.0
     - ZOOL 2425 Human Physiology Laboratory 1.0
   - 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

BS in Dental Hygiene 120 CREDITS Matriculation Requirements:
1. Completion of an AA, AS, or AAS degree in dental hygiene from an accredited program with department permission
2. General Education Requirements: 38 Credits
   - ENGLISH
     - ENGL 1010 Introduction to Writing 3.0
     - ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
   - Complete one of the following: 3.0
     - HIST 1700 American Civilization (3.0)
     - HIST 2700 US History before 1877 (3.0)
     - HIST 2710 US History since 1877 (3.0)
   - Complete the following: 3.0
     - MATH 1050 College Algebra
     - DENT 1010 Dental Hygiene I
     - DENT 1015 Dental Hygiene I Preclinical lab
     - DENT 1020 Oral Anatomy and Physiology
     - DENT 1030 Dental Materials
     - DENT 1040 Dental Hygiene II
     - DENT 1045 Dental Hygiene II Clinical
     - DENT 1050 Clinical Dental Radiography
     - DENT 1055 Clinical Dental Radiography Lab
     - DENT 1060 General and Oral Pathology
     - DENT 2020 Dental Pharmacology
     - DENT 2060 Community Dental Hygiene
     - DENT 3010 Dental Hygiene III
     - DENT 3015 Dental Hygiene III Clinical
     - DENT 3030 Periodontology
     - DENT 3040 Dental Hygiene IV
     - DENT 3045 Dental Hygiene IV Clinical
     - DENT 3050 Dental Hygiene Seminar
     - CHEM 1110 Elementary Chemistry for the Health Sciences
     - COMM 1050 Introduction to Speech Communication
     - PSY 1010 General Psychology
     - ZOOL 2320 Human Anatomy
     - ZOOL 2325 Human Anatomy Laboratory
     - ZOOL 2420 Human Physiology
     - ZOOL 2425 Human Physiology Laboratory

Emphasis in Education 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis in Integrative Practice 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis in Public Health 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis Requirements: 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis in Entrepreneurship 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis Requirements: 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis in Science 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis Requirements: 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis in Human Sciences 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis Requirements: 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis in Business 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis Requirements: 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis in Health Services 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)

Emphasis Requirements: 12 Credits
- DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
- DENT 360G Business Administration 3.0
- DENT 406G Community Health Project (3.0)
Diesel Mechanics Technology

Department Chair: Don Wilson
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Telephone: 801-863-8124

Program Coordinator: Dean Bohl
Office: SA 317c
Telephone: 801-863-8251 or 801-863-8349

Faculty:
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Kelvyn Blackhurst
Dean Bohl
Advisor: Carrie Peterson
Office: CS 635
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Office Manager: Katreena Davis
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Advisory Committee: Ben Stacy, Rio Tinto; Brady Pullar, Lake City International; Terry Pollock, Wheeler Machinery; Rick Garcia, UTA; Dave Anderson, Geneva Rock Products; J.T. Collett, Payson High School Auto Shop

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

CAREER OPPORTUNITIES
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.

PROGRAMS
Four options are available: One-year Certificate, Diploma, and Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. Reminder: An overall grade point average of 2.0 (C) or above is required for graduation.

Certificate in Diesel Mechanics Technology 32 CREDITS

Discipline Core Requirements: 32 Credits
- DMT 1110 Diesel Engine Overhaul 4.0
- DMT 111L Diesel Engine Overhaul Lab 2.0
- DMT 1120 Diesel Engine Operation/Tune Up 4.0
- DMT 112L Diesel Engine Operation/Tune Up Lab 2.0
- DMT 1510 Electrical Systems Theory 4.0
- DMT 151L Electrical Systems Lab 2.0
- DMT 1520 Engine Electronics and Diagnostics 4.0
- DMT 152L Engine Electronics and Diagnostics Lab 2.0
- MGMT 2200 Business Communication 3.0
- AUT 1260 Tech Math for Mechanics 3.0
- or MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)
- or Any higher MAT or MATH course
- Any approved Behavioral Science, Social, or Political Science Distribution Course

Graduation Requirements:
1. Completion of a minimum of 24 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Completion of specified departmental requirements.
4. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

Diploma in Diesel Mechanics Technology 56 CREDITS

Discipline Core Requirements: 56 Credits
- DMT 1110 Diesel Engine Overhaul 4.0
- DMT 111L Diesel Engine Overhaul Lab 2.0
- DMT 1120 Diesel Engine Operation/Tune Up 4.0
- DMT 112L Diesel Engine Operation/Tune Up Lab 2.0
- DMT 1510 Electrical Systems Theory 4.0
- DMT 151L Electrical Systems Lab 2.0
- DMT 1520 Engine Electronics and Diagnostics 4.0
- DMT 152L Engine Electronics and Diagnostics Lab 2.0
- DMT 223L Climate Control Lab 1.0
- DMT 2310 Fluid Power Theory 4.0
- DMT 231L Fluid Power Lab 2.0
- DMT 2320 Fluid Power Transmission Theory 2.0
- DMT 232L Fluid Power Transmission Lab 1.0
- DMT 2410 Chassis Theory 4.0
- DMT 241L Chassis Lab 2.0
- DMT 2420 Power Trains Theory 4.0
- DMT 242L Power Trains Lab 2.0

Graduation Requirements:
1. Completion of a minimum of 56 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Completion of specified departmental requirements.
4. Residency hours -- minimum of 20 credit hours through course attendance at UVU.

AAS in Diesel Mechanics Technology 64 CREDITS

General Education Requirements: 16 Credits
- MGMT 2200 Business Communication 3.0
- AUT 1260 Tech Math for Mechanics 3.0
- or MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)
- or Any higher MAT or MATH course
- Any approved Humanities, Fine Arts, or Foreign Language Distribution Course
- Any approved Behavioral Science, Social, or Political Science Distribution Course
- Any approved Biology or Physical Science Distribution Course
- Any approved Physical Education, Health, Safety or Environment Course

Graduation Requirements: 48 Credits
- DMT 1110 Diesel Engine Overhaul 4.0
- DMT 111L Diesel Engine Overhaul Lab 2.0
- DMT 1120 Diesel Engine Operation/Tune Up 4.0
- DMT 112L Diesel Engine Operation/Tune Up Lab 2.0
- DMT 1510 Electrical Systems Theory 4.0
- DMT 151L Electrical Systems Lab 2.0
- DMT 1520 Engine Electronics and Diagnostics 4.0
- DMT 152L Engine Electronics and Diagnostics Lab 2.0
- DMT 2230 Heating Ventilation Air Conditioning and Refrigeration Theory 2.0
- DMT 223L Climate Control Lab 1.0
- DMT 2310 Fluid Power Theory 4.0
- DMT 231L Fluid Power Lab 2.0
- DMT 2320 Fluid Power Transmission Theory 2.0
- DMT 232L Fluid Power Transmission Lab 1.0
- DMT 2410 Chassis Theory 4.0
- DMT 241L Chassis Lab 2.0
- DMT 2420 Power Trains Theory 4.0
- DMT 242L Power Trains Lab 2.0

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.
4. Completion of GE and specified departmental requirements.

BS in Technology Management: 125 Credits

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Diesel Mechanics Technology 48 Credits

Emphasis Requirements: 48 Credits
- DMT 1110 Diesel Engine Overhaul 4.0
- DMT 111L Diesel Engine Overhaul Lab 2.0
- DMT 1120 Diesel Engine Operation/Tune Up 4.0
- DMT 112L Diesel Engine Operation/Tune Up Lab 2.0
- DMT 1510 Electrical Systems Theory 4.0
- DMT 151L Electrical Systems Lab 2.0
- DMT 1520 Engine Electronics and Diagnostics 4.0
- DMT 152L Engine Electronics and Diagnostics Lab 2.0
- DMT 2230 Heating Ventilation Air Conditioning and Refrigeration Theory 2.0
- DMT 223L Climate Control Lab 1.0
- DMT 2310 Fluid Power Theory 4.0
- DMT 231L Fluid Power Lab 2.0
- DMT 2320 Fluid Power Transmission Theory 2.0
- DMT 232L Fluid Power Transmission Lab 1.0
- DMT 2410 Chassis Theory 4.0
- DMT 241L Chassis Lab 2.0
- DMT 2420 Power Trains Theory 4.0
- DMT 242L Power Trains Lab 2.0

Due to the technical nature of the material in DMT courses, additional reading and math instruction may be required. More information will be given during advisement.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- AUT, Automotive Technology
- CRT, Collision Repair Technology
- DMT, Diesel Mechanics Technology

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Digital Media

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Office: CS 526g
Telephone: 801-863-6362

Business/Marketing Education Director: Cynthia Krebs
Office: CS526a
Telephone: 801-863-8281

Department Office: CS 526
Department Telephone: 801-863-6283

Faculty:

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Associate Professor
Thor Anderson
Jan Bentley
Trudy Christensen
Rodayne Esmay
Michael Harper
Dennis Lisonbee
Michael G. Wisland
Assistant Professor
Arlon Card
Paul Cheney
Anthony Romrell
Robert Trim
Kim Brown

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Advisor: Bonnie Cook
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Advisor: Joyce Porter
Telephone: 801-863-7125

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

PROGRAM DESCRIPTION

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. The Department of Digital Media also houses the Administrative Information Management programs and the Business Education Certification program.

Students in Digital Media may earn either an Associate degree or a Bachelor of Science degree. Areas of emphasis include:

- Administrative Information Management
- Audio Production
- Digital Motion Picture Production
- Gaming and Animation
- Project and Information Management
- Internet Technologies

CAREER OPPORTUNITIES

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 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, create an interactive web site to support a company’s retail efforts or as administrative information management professionals.

Note: Some DGM courses require students to use their own laptop computer in the classroom.

PROGRAMS

Students may receive an Associate in Applied Science in Administrative Information Support or Digital Communication Technology, an Associate in Science in Administrative Information Management, a Bachelor of Science in Digital Media, or a Bachelor of Science in Business/Marketing Education.

For a program listing for Administrative Information Management see the Administrative Information Management section of the catalog.

For a program listing for Business/Marketing Education see the Business/Marketing Education section of the catalog.

AAS in Digital Communication Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010: Intro to Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>MAT 1010: Intermediate Algebra</td>
<td>4.0</td>
</tr>
<tr>
<td>PHIL 2050: Ethics and Values</td>
<td>3.0</td>
</tr>
<tr>
<td>or any approved Humanities, Fine Arts, or Foreign Language Distribution Course</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 23 Credits

Complete the following:

- DGM 1110 Digital Media Essentials I (3.0)
- 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)
- DGM 2240 Interaction Design (3.0)
- DGM 2250 Principles of Digital Design (3.0)
- or ART 1120 2D Design (3.0)

Elective Requirements: 24 Credits

Complete 24 credits from approved DGM electives (see advisor)

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.
4. Completion of GE and specified departmental requirements.

BS in Digital Media

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing (3.0)
- ENGL 1020 Intermediate Writing—Humanities/ Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

Complete one of the following:

- 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:

- HIST 2710 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)
- HLTH 1100 Personal Health and Wellness (3.0)
- or PES 1097 Fitness for Life (2.0)

Distribution Courses

- Biology (3.0)
- Physical Science—ASTR 1040 Elementary Astronomy recommended for Cinema Production (3.0)
- Additional Biology or Physical Science (3.0)
- Humanities Distribution—ENGL 2200 Introduction to Literature or ENGL 2130 Science Fiction recommended for Cinema Production (3.0)
- Fine Arts Distribution—THEA 1023 Introduction to Film and THEA 1025 Introduction to Film Laboratory recommended for Cinema Production, MUSC 1010 Introduction to Music recommended for Audio Production (3.0)
- Social/Behavioral Science—MGMT 1010 Introduction to Business recommended for Cinema Production (3.0)

Discipline Core Requirements: 25 Credits

Complete the following:

- DGM 1110 Digital Media Essentials I (3.0)
- DGM 2120 Web Essentials (3.0)
- DGM 3220 Digital Media Project Management (3.0)
- DGM 312G Digital Media for Intercollegiate Communication (3.0)
- or DGM 4000 Writing for Digital Media (3.0)
- or DGM 3570 Digital Story Telling Workshop (3.0)
- or DGM 374R New Script Workshop (3.0)
Earth Science

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E-mail: Michael.Bunds@uvu.edu

Advisor: Tom Liljegren
Office: PS 202b
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Program Director for Environmental Management:
Jim Callison
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Faculty:
Professor
Daniel Horns
Paul Taylor
Associate Professor
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Michael Bunds
Eddy Cadet
Jim Callison
William Dinklage
Steven Emerman
Dan Stephen

Administrative Assistant:
Kellie D. Hancock

Laboratory Instructor:
Emily B. Lamas

College of Science and Health
Dean: Sam Rushforth
Office: PS 201a
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CAREER OPPORTUNITIES
Examples of occupations open to graduates of Earth Science bachelor programs are: exploring for oil, coal, gas, and minerals; finding, developing, and protecting water resources; assessing geologic hazards and protecting society from those hazards; assessing and cleaning pollution and regulating potentially-polluting industries. Current employment opportunities for graduates from Earth Science programs are strong.

Programs
Students in Earth Science may receive: Bachelor of Science in Earth Science with an Emphasis in Geology; Bachelor of Science in Earth Science Education; Bachelor of Science or Arts in Integrated Studies with an emphasis in Earth Science.

Certificate in Water and Wastewater Operations
31 Credits

Discipline Core Requirements: 22 Credits

- ENVT 1200 Environmental Worker Safety (3.0)
- ENVT 1210 Introduction to Water Reclamation (3.0)
- or ENVT 1360 Introduction to Water Treatment (3.0)
- ENVT 1300 Environmental Lab and Sampling (3.0)
- ENVT 3280 Environmental Law (3.0)
- ENGL 1010 Introduction to Writing (3.0)
- DGM 2010 Business Computer Proficiency (3.0)
- or Business Computer Proficiency Exam (4.0)
- MAT 1010 Intermediate Algebra (4.0)

Elective Requirements: 9 Credits

Must take three of the following courses
- ENVT 1270 Environmental Microbiology (3.0)
- ENVT 1510 Hazardous Materials Emergency Response (3.0)
- ENVT 3320 Hydraulics of Water (3.0)
- ENVT 3330 Water Resources Management (3.0)
- ENVT 3630 Introduction to Geographic Information Systems (4.0)
- ENVT 3790 Hydrology I (4.0)

AS Pre Major in Physical Science 63 Credits

General Education Requirements: 38 Credits

- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2010 Intermediate Writing—Humanities/Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
- MATH 1050 College Algebra (4.0)
- Complete one of the following:
  - HIST 2700 US History to 1877 (3.0)
  - or HIST 2710 US History since 1877 (3.0)
  - or 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 (3.0)
  - HLTH 1100 Personal Health and Wellness (2.0)
  - or PES 1097 Fitness for Life (2.0)

Distribution Courses

- Biology (4.0)
  - PHYS 2210 Physics for Scientists and Engineers I (4.0)
  - PHYS 2220 Physics for Scientists and Engineers II (4.0)
- Humanities Distribution (3.0)
  - Fine Arts Distribution (3.0)
  - Social/Behavioral Science (3.0)

Discipline Core Requirements: 17 Credits

- CHEM 1210 Principles of Chemistry I (4.0)
- CHEM 1215 Principles of Chemistry I Laboratory (1.0)
- MATH 1210 Calculus I (5.0)
- MATH 1220 Calculus II (5.0)
- PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)
- PHYS 2225 Physics for Scientists and Engineers II Lab (1.0)

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 Engineers (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.

BS in Environmental Science and Management 125 Credits

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2020 Intermediate Writing—Science and Technology (3.0)
- MATH 1050 College Algebra (4.0)
- Complete the following:
  - HIST 2700 US History to 1877 (3.0)
  - or HIST 2710 US History since 1877 (3.0)
  - or 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 (3.0)
  - HLTH 1100 Personal Health and Wellness (2.0)
  - or PES 1097 Fitness for Life (2.0)

Distribution Courses

- BIOL 1010 General Biology (fulfills Biology Distribution) (3.0)
- ENVT 1110 Introduction to Environmental Management (fulfills Physical Science Distribution) (3.0)
- GEO 1010 Introduction to Geology (fulfills additional Physical Science Distribution) (3.0)
- Humanities (3.0)
- Fine Arts (3.0)
- Social/Behavioral Science (3.0)

Discipline Core Requirements: 73 Credits

- CHEM 1210 Principles of Chemistry I (4.0)
- CHEM 1215 Principles of Chemistry I Laboratory (1.0)
- MATH 1210 Calculus I (5.0)
- MATH 1220 Calculus II (5.0)
- PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)
- PHYS 2225 Physics for Scientists and Engineers II Lab (1.0)
- 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)

Choose 16 credit hours from the following list:

- CHEM 1120 Organic Chemistry I (4.0)
- CHEM 2310 Organic Chemistry I 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)
- or ENVT 1210 Introduction to Water Reclamation (3.0)
• ENV 1360 Introduction to Water Treatment (3.0)
• ENV 282R Environmental Internship (1.0)
• ENV 3310 Environmental Toxicology (3.0)
• ENV 3320 Hydraulics of Water (3.0)
• ENV 3330 Water Resources Management (3.0)
• ENV 3550 Site Investigation (3.0)
• ENV 3700 Current Topics in Environmental Management (3.0)
• ENV 3750 Land Use Planning (3.0)
• ENV 3770 Natural Resources Management (3.0)
• ENV 3800 Energy Use on Earth (3.0)
• ENV 482R Environmental Education (1.0)
• ENV 491R Special Projects in Environmental Management (1.0)
• GEO 3080 Earth Materials (4.0)
• GEO 3200 Geologic Hazards (4.0)
• GEO 4500 Sedimentary Geology (4.0)

or other advisor-approved electives

PHYS 2015 College Physics I (3.0)
PHYS 2020 College Physics II (4.0)
PHYS 2050 Conservation Biology (3.0)
PHYS 2730 Introduction to Soils (4.0)
PHYS 3000 GIS and GPS Applications for the Earth Sciences (3.0)
PHYS 3260 Environmental Law (3.0)
PHYS 3290 Environmental Permits and Reports (3.0)
PHYS 3630 Introduction to Geographic Information Systems (4.0)
PHYS 4790 Hydrology II (4.0)

Graduation Requirements:
1. Completion of a minimum of 123 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Grade of C- or better in all GEO, BIOL, and METO courses.
4. Residency hours—minimum of 20 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.

BS in Earth Science Education 123 Credits
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. PRAXIS Pre-Professional Skills Test (PPST) scores of Reading 170 and Mathematics 170 or higher.
2. GPA of 2.75 or higher.
3. Completion of all General Education requirements and required pre-professional education courses.
4. An interview directed by the Teacher Education Selection and Retention Committee.
5. Pass criminal background check.

General Education Requirements: 27 Credits
• ENGL 1010 Introduction to Writing (3.0)
• ENGL 2020 Intermediate Writing—Science and Technology (3.0)
• MATH 1050 College Algebra (4.0)
• MATH 1060 MATH 1060, BIOL 1610 with a grade of C- or higher in each.
• 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)

Discipline Core Requirements: 96 Credits
• BIOL 1010 General Biology (3.0)
• CHEM 1220 Principles of Chemistry I Laboratory (1.0)
• CHEM 1225 Principles of Chemistry I Laboratory (1.0)
• CHEM 1610 Personal Health and Wellness (2.0)
• CHEM 2010 Principles of Chemistry II Laboratory (1.0)
• CHEM 3020 Principles of Chemistry II (4.0)
• CHEM 3040 Principles of Organic Chemistry (4.0)
• CHEM 4500 Sedimentary Geology (4.0)
• CHEM 4510 Paleontology (4.0)
• CHEM 4600 Field Experience (4.0)
• CHEM 4700 Trigonometry (3.0)
• CHEM 1120 Calculus I (3.0)
• CHEM 1220 Calculus II (5.0)
• MATH 2040 Principles of Statistics (4.0)

or

• PHYS 2210 Physics for Scientists and Engineers I (4.0)
• PHYS 2220 Physics for Scientists and Engineers II (4.0)

Complete 16 credits from the following list:
• BIOL 3800 Conservation Biology (3.0)
• ENVT 2730 Introduction to Soils (4.0)
• ENVT 3000 GIS and GPS Applications for the Earth Sciences (3.0)
• ENVT 3280 Environmental Law (3.0)
• ENVT 3290 Environmental Permits and Reports (3.0)
• ENVT 3630 Introduction to Geographic Information Systems (4.0)
• ENVT 4790 Hydrology II (4.0)
• GEO 1080 Introduction to Oceanography (3.0)
• GEO 1085 Introduction to Oceanography Laboratory (1.0)
• GEO 2015 Science Excursion (1.0)
• GEO 3400 Forensic Geology (4.0)
• GEO 482R Environmental Education (1.0)
• METO 1010 Introduction to Meteorology (3.0)
• METO 1020 Introduction to Meteorology Laboratory (1.0)
• METO 3100 Climate and the Earth System (3.0)
• PHYS 2105 College Physics I Lab (1.0)
• PHYS 2105 College Physics II Lab (1.0)

Graduation Requirements:
1. Completion of a minimum of 123 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.

Note: *This requirement is satisfied within the discipline core requirements.

Discipline Core Requirements: 86 Credits
• ASTR 3050 Astrophysics I (3.0)
• BIOL 1010 General Biology (3.0)
• BIOL 2500 Environmental Biology (3.0)
• CHEM 1210 Principles of Chemistry I (4.0)
• CHEM 1215 Principles of Chemistry I Laboratory (1.0)
• CHEM 1220 Principles of Chemistry II (4.0)
• CHEM 1225 Principles of Chemistry II Laboratory (1.0)
• GEO 1010 Introduction to Geology (3.0)
• GEO 1015 Introduction to Geology Laboratory (1.0)
• GEO 3080 Earth Materials (4.0)
• GEO 3700 Structure and Tectonics (4.0)
• GEO 4200 Teaching Methods in Science (3.0)
• GEO 4500 Sedimentary Geology (4.0)
• MAT 1060 Trigonometry (3.0)
• METO 3100 Climate and the Earth System (3.0)
• PHYS 2105 College Physics I (4.0)
• PHYS 2105 College Physics II Lab (1.0)
• PHYS 2105 College Physics II (4.0)
• PHYS 2105 College Physics II Lab (1.0)

Education Courses:
• EDSC 3000 Educational Psychology (3.0)
• EDSC 3050 Foundations of American Education (2.0)
• EDSC 3250 Instructional Media (2.0)
• EDSC 4200 Classroom Management I (2.0)
• EDSC 4250 Classroom Management II (2.0)
• EDSC 4440 Content Area Reading and Writing (3.0)
• EDSC 444G Multicultural Instruction ESL (3.0)
• EDSC 4550 Secondary Curriculum Instruction and Assessment (3.0)
• EDSC 4850 Student Teaching—Secondary (4.0) 10.0
• EDSP 3400 Exceptional Students (2.0)

E elective Requirements: 10 Credits
Any 10 credit hours from the following list. 10.0
• GEO 1080 Introduction to Oceanography (3.0)
• GEO 1085 Introduction to Oceanography Laboratory (1.0)
• GEO 1220 Historical Geology (3.0)
• GEO 1225 Historical Geology Laboratory (1.0)
• GEO 202R Science Excursion (1.0)
• GEO 204R Natural History Excursion (3.0)
• GEO 3200 Geologic Hazards (4.0)
• GEO 4510 Paleontology (4.0)
• METO 1010 Introduction to Meteorology (3.0)
• METO 1020 Introduction to Meteorology Laboratory (1.0)

Graduation Requirements:
1. Completion of a minimum of 123 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. Grade of C- or higher in all GEO, BIOL, and METO courses.

Note: *This requirement is fulfilled with the core requirements.

Minor in Earth Science 23 Credits
Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 23 Credits
• GEO 1010 Introduction to Geology (3.0)
• GEO 1015 Introduction to Geology Laboratory (1.0)
• GEO 3080 Earth Materials (4.0)

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)
• ENV 3000 GIS and GPS Applications for the Earth Sciences (3.0)
• ENV 3630 Introduction to Geographic Information Systems (4.0)
Earth Science

- ENV T 3790  Hydrology I (4.0)

BA/BS in Integrated Studies  123 Credits

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Earth Science  18 Credits

Emphasis Requirements:  18 Credits

Earth Science Emphasis:
- GEO 1010  Introduction to Geology (3.0)
- GEO 1015  Introduction to Geology Laboratory (highly recommended) (1.0)

Complete one of the following sets (lab is highly recommended)
- GEO 1220  Historical Geology (3.0)
- GEO 1225  Historical Geology Laboratory (1.0)
- 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 three courses from the following:
- METO 3100  Climate and the Earth System (3.0)
- METO 1020  Introduction to Meteorology Laboratory (1.0)
- GEO 1015  Introduction to Geology Laboratory (1.0)
- GEO 1225  Historical Geology Laboratory (1.0)
- GEO 3080  Earth Materials (4.0)
- GEO 3200  Geologic Hazards (4.0)
- GEO 3700  Structure and Tectonics (4.0)
- GEO 4500  Sedimentary Geology (4.0)
- GEO 4510  Paleontology (4.0)
- ENV T 3000  GIS and GPS Applications for the Earth Sciences (3.0)
- ENV T 3790  Hydrology I (4.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- ENV T, Environmental Management
- GEO, Geology
- GEO G, Geography
- METO, Meteorology
Elementary Education

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Telephone: 801-863-6571

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Elaine Byrd
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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 and observations.

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 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
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.

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: One-year Certificate in Early Care and Education; Associate in Science (AS) in Early Childhood Education; Associate in Science (AS) in Pre-Elementary Education; Baccalaureate 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 AND RETENTION
Admission to the Education Program is required for enrollment in professional studies level courses. Admission criteria*: 1) Praxis II (0014) scores; 2) GPA of 3.00 or higher; and 3) an interview directed by the Teacher Education Admission and Retention Committee. 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.

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.

Certificate in Early Care and Education

Discipline Core Requirements: 28 Credits
- PSY 1100 Human Development Life Span (C or grade or higher) 3.0
- EDEC 1640 Childrens Music and Movement 2.0
- EDEC 2300 Including Young Diverse Learners 2.0
- or EDSP 3400 Exceptional Students (2.0)
- EDEC 2500 Child Development Birth to Eight Years 3.0
- EDEC 2600 Introduction to Early Childhood Education 2.0
- EDEC 2610 Child Guidance 3.0
- EDEC 2620 Early Childhood Curriculum 3.0
- EDEC 2640 Literacy and Literature for Early Childhood 3.0
- EDEC 2700 Early Childhood Practicum 3.0
- EDEC 2720 Early Childhood Assessment 2.0
- EDEL 2200 Computer Technology in Education 2.0

Elective Requirements: 2 Credits
- Advisor Approval 2.0

Graduation Requirements:
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.

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AS Pre Major in Early Childhood Education 60 Credits

General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 1020 Intermediate Writing—Humanities/ Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
- MATH 1050 College Algebra 4.0
  Complete one of the following:
  - 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)
- PHIL 2050 Ethics and Values 3.0
- HLTH 3100 Health Education for Elementary Teachers 2.0

Discipline Core Requirements: 15 Credits
- Complete the following:
  - EDEL 2200 Computer Technology in Education 2.0
  - EDEL 1010 Introduction to Education 2.0
  - EDEL 2330 Children's Literature 3.0
  - EDSP 3400 Exceptional Students 2.0
  - MATH 2020 Mathematics for Elementary Teachers I 3.0
  - MATH 2020 Mathematics for Elementary Teachers II 3.0

Elective Requirements: 12 Credits
Complete one of the following courses from the recommended list:
- ART 3400 Fundamentals of Art Education (3.0)
- MUSC 3400 Music in the Elementary School (2.0)
- DANC 3400 Dance in the Elementary School (2.0)
- THEA 3713 Theatre and Drama in the Elementary School (3.0)
- PHIL 3450 Philosophy of Childhood (3.0)
- Early Childhood Literacy:
  - EDEC 2300 Including Young Diverse Learners (2.0)
  - EDEC 2500 Child Development Birth to Eight Years (3.0)
  - EDEC 2600 Introduction to Early Childhood Education (2.0)
  - EDEC 2610 Child Guidance (3.0)
  - EDEC 2640 Literacy and Literature for Early Childhood (3.0)

Graduation Requirements:
1. Completion of a minimum of 63 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.

Graduation Requirements: 3.0
5. First aid/CPR certification, food handler’s permit, portfolio review and acceptance by Education Committee.

AS Pre Major in Pre-Elementary Education 63 Credits

General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 1020 Intermediate Writing—Humanities/ Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing—Science and Technology (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)
- PHIL 2050 Ethics and Values 3.0
- HLTH 3100 Health Education for Elementary Teachers 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 1100 Human Development Life Span 3.0

BS in Elementary Education 121 Credits

General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 1020 Intermediate Writing—Humanities/ Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing—Science and Technology (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)
- HLTH 3100 Health Education for Elementary Teachers 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 1100 Human Development Life Span 3.0

Discipline Core Requirements: 73 Credits
- Complete the following:
  - EDEL 1010 Introduction to Education 2.0
  - EDEL 2200 Computer Technology in Education 2.0
  - EDEL 2330 Children’s Literature 3.0
  - EDSP 3400 Exceptional Students 2.0
  - MATH 2010 Mathematics for Elementary Teachers I 3.0

Elective Requirements: 38 Credits
- Optional Electives:
  - ART 3400 Fundamentals of Art Education (3.0)
  - MUSC 3400 Music in the Elementary School (2.0)
  - DANC 3400 Dance in the Elementary School (2.0)
  - THEA 3713 Theatre and Drama in the Elementary School (3.0)
  - PHIL 3450 Philosophy of Childhood (3.0)
  - Early Childhood Literacy:
  - EDEC 2300 Including Young Diverse Learners (2.0)
  - EDEC 2500 Child Development Birth to Eight Years (3.0)
  - EDEC 2600 Introduction to Early Childhood Education (2.0)
  - EDEC 2610 Child Guidance (3.0)
  - EDEC 2640 Literacy and Literature for Early Childhood (3.0)

Graduation Requirements:
1. Completion of at least 121 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.

Graduation Requirements: 3.0
5. Complete the following courses Messiah College:

Footnotes:
- Students must complete all Pre-Professional and General Education courses with an overall GPA of 3.0 or better.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- EDFS, Education, Child and Family Studies
- EDEC, Early Childhood Education
- EDEL, Elementary Education
- EDSP, Special Education
Approved content area.

The UVU teacher education initial licensure program is accredited by 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. Baccalaureate degrees (BS and BA) are granted through the content area department and not through the School of Education.

**LICENSE/DEGREE AREAS**


**ADMISSION AND RETENTION**

Admission to the Secondary Education Program is required for enrollment in professional studies level courses. Admission criteria:* 1) Minimum (Pre-Professional Skills Test) PPST scores; 2) GPA of 2.75 or higher; and 3) an interview directed by the Teacher Education Admission and Retention Committee. 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 personal integrity, responsibility, and citizenship commonly expected of professional educators.

Persons who hold a valid (current or expired) Professional Secondary Education Teaching License may pursue relicensing course work through the School of Education.

**Licensure in Secondary Education**

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 PRAXIS I Pre-Professional Skills Test (PPST) scores of Reading 170 and Mathematics 173 or higher.</td>
</tr>
<tr>
<td>2 GPA of 2.75 or higher</td>
</tr>
<tr>
<td>3 Completion of all General Education requirements and required pre-professional education courses.</td>
</tr>
<tr>
<td>4 An interview directed by the Teacher Education Selection and Retention Committee.</td>
</tr>
<tr>
<td>5 Pass criminal background check.</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements:**

<table>
<thead>
<tr>
<th>32 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• EDSC 3300 Educational Psychology 3.0</td>
</tr>
<tr>
<td>• EDSC 3360 Foundations of American Education 2.0</td>
</tr>
<tr>
<td>• EDSC 3350 Instructional Media 2.0</td>
</tr>
<tr>
<td>• EDSC 4200 Classroom Management I 2.0</td>
</tr>
<tr>
<td>• EDSC 4250 Classroom Management II 2.0</td>
</tr>
<tr>
<td>• EDSC 4440 Content Area Reading and Writing 3.0</td>
</tr>
<tr>
<td>• EDSC 445G Multicultural Instruction ESL 3.0</td>
</tr>
<tr>
<td>• EDSC 4550 Secondary Curriculum Instruction and Assessment 3.0</td>
</tr>
<tr>
<td>• EDSC 4850 Student Teaching--Secondary (4.0) 10.0</td>
</tr>
<tr>
<td>• EDSP 3400 Exceptional Students 2.0</td>
</tr>
</tbody>
</table>

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- EDSC, Secondary Education
Electrical Automation & Robotics Technology

Programs
Three options are available: Associate in Applied Science Degree, Associate in Science Degree, and the Bachelor of Science in Technology Management. See Graduation Requirements in catalog for definitions.

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

Management (i.e. Technology Management or Business Management) course work older than six years cannot be counted toward graduation.

If student chooses HIST 2700 and HIST 2710, the additional three hours may be used towards a social science distribution requirement.

AAS in Electrical Automation and Robotics Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>Any approved Humanities or Fine Art</td>
<td>3.0</td>
</tr>
<tr>
<td>Any approved Behavioral Science, Social, or Political Science Distribution Course</td>
<td>3.0</td>
</tr>
<tr>
<td>Any approved Physical Education, Health, Safety, or Environment Course</td>
<td>1.0</td>
</tr>
<tr>
<td>Any approved Biology or Physical Science</td>
<td>2.0</td>
</tr>
<tr>
<td>EART 1050 Applied Electrical Math</td>
<td>5.0</td>
</tr>
</tbody>
</table>

Discipline Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EART 1130 Basic Electrical Lab</td>
<td>4.0</td>
</tr>
<tr>
<td>EART 1180 Basic Electrical Lab</td>
<td>5.0</td>
</tr>
<tr>
<td>EART 1250 Electrical Wiring and Code</td>
<td>2.0</td>
</tr>
<tr>
<td>EART 1260 Logic</td>
<td>2.0</td>
</tr>
<tr>
<td>EART 1280 DC and AC Machines</td>
<td>5.0</td>
</tr>
<tr>
<td>EART 1285 DC and AC Machines Lab</td>
<td>4.0</td>
</tr>
<tr>
<td>EART 2110 Semiconductors Devices</td>
<td>6.0</td>
</tr>
<tr>
<td>EART 2150 Hydraulics and Pneumatics</td>
<td>3.0</td>
</tr>
<tr>
<td>EART 2160 Industrial Solid State Circuit</td>
<td>5.0</td>
</tr>
<tr>
<td>EART 2220 Programmable Logic Controllers 1</td>
<td>5.0</td>
</tr>
<tr>
<td>EART 2220 Advanced Logic</td>
<td>3.0</td>
</tr>
<tr>
<td>EART 2270 Programmable Logic Controllers 2</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Graduation Requirements

1. Completion of a minimum of 68 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.

AAS in Mechatronics Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>4.0</td>
</tr>
<tr>
<td>COMM 1020 Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td>or English 2010 Technical Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>or Other Humanities distribution course approved by Dept. Chair</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Complete one of the following:
- HIST 1700 American Civilization (3.0)
- HIST 2700 US History from 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)
- and POLS 1100 American National Government (3.0)

Complete the following:
- PHYS 2010 College Physics I | 4.0
- PHYS 2015 College Physics Lab | 1.0
- HLTH 1100 Personal Health and Wellness | 2.0

or
- PES 1097 Fitness for Life (2.0)

Discipline Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1040 Calculus</td>
<td>3.0</td>
</tr>
<tr>
<td>MECH 2030 Sensor Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>MECH 2040 Control Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>MECH 3050 Mechatronics Integration Projects</td>
<td>3.0</td>
</tr>
<tr>
<td>MECH 3060 Mechatronics Management</td>
<td>3.0</td>
</tr>
<tr>
<td>MECH 1510 Software Tools for Mechatronics</td>
<td>3.0</td>
</tr>
<tr>
<td>MECH 2520 Introduction to Control Systems Programming</td>
<td>4.0</td>
</tr>
<tr>
<td>MECH 2530 Advanced Control Systems Programming</td>
<td>4.0</td>
</tr>
<tr>
<td>MECH 3540 Embedded Control Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>MECH 1800 Basic Electronics AC and DC</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of 69 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.

AS Pre Major in Electrical Automation and Robotics Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 2010 Interdisciplinary Writing—Humanities</td>
<td>3.0</td>
</tr>
<tr>
<td>or ENGL 2020 Interdisciplinary Writing—Science and Technology</td>
<td>3.0</td>
</tr>
</tbody>
</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 the following:
- HIST 2700 US History from 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
- HLTH 1100 Personal Health and Wellness | 2.0
- or 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>3.0</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3.0</td>
</tr>
<tr>
<td>Additional Biology or Physical Science</td>
<td>3.0</td>
</tr>
<tr>
<td>Humanities Distribution</td>
<td>3.0</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
<td>3.0</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Discipline Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 1200</td>
<td>16 Credits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 1200</td>
<td>16 Credits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 1200</td>
<td>16 Credits</td>
</tr>
</tbody>
</table>

Elective Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives (1000 level or higher)</td>
<td>12.0</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 68 semester credits.
2. Overall grade point average of 2.0 (C) or above (Department may require a higher GPA.)

Elective Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives (1000 level or higher)</td>
<td>12.0</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 68 semester credits.
2. Overall grade point average of 2.0 (C) or above (Department may require a higher GPA.)

Elective Requirements

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives (1000 level or higher)</td>
<td>12.0</td>
</tr>
</tbody>
</table>

Graduation Requirements:

This department offers degrees in Electrical Automation and Robotics Technology (EART) and Mechatronics Technology.

The EART degrees prepare students for work with all types of electrical automated control systems and automated manufacturing equipment. Students also receive training to work with hydraulic and pneumatic equipment as well as industrial and commercial electrical wiring.

CAREER OPPORTUNITIES

EART students may be employed in many different occupations. They may work in mining industries, steel mills, processing plants, oil refineries, power plants, manufacturing, semiconductor industries, electronics companies, and chemical industries. Job duties may include construction, fabrication, maintenance, troubleshooting, repair, calibration, test and design. They may work with automatic control systems, AC and DC control components, motors, programmable control, microprocessors, computers, and robots. Advancement to supervisor and management positions within the electrical field is frequently available.

Department of Engineering Graphics and Design Technology

Program Coordinator: Dave Adams
Office: CS 620
Telephone: 801-863-6052

Faculty:
- Associate Professor
- Dave Adams
- Lecturer
- Robert Benson

Advisory Committee: Kent Brown, Porter Brown Sales, Inc.; J.R. Christensen, Lyle W. Williams Company, Inc.; Brad Hardman, Stoffer; David Hill, Bruce Lindsay, Arch Coal, Inc.; Hamilton Shattuck, IM Flash Technologies; Russ Terry, Codale Electric Supply, Inc.; Jim Bird, Kennecott; Tyson Bunker, US Synthetic; Mel Price, Electrical Automation Specialists; Jeff Freestone, B.H.I.; Kris Franz, Rockwell Automation; Nasir Khan, BD Medical; Steve Brown, Alpine School District.

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

This department offers degrees in Electrical Automation and Robotics Technology (EART) and Mechatronics Technology.

The EART degrees prepare students for work with all types of electrical automated control systems and automated manufacturing equipment. Students also receive training to work with hydraulic and pneumatic equipment as well as industrial and commercial electrical wiring.
3 Residency hours—minimum of 20 credit hours through course attendance at UVU.
4 Completion of GE and specified departmental requirements.

**BS in Technology Management 125 Credits**
The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

**Specialization in Electrical Automation and Robotics Technology 45 Credits**

<table>
<thead>
<tr>
<th>Emphasis Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• EART 1130 Basic Electrical</td>
<td>4.0</td>
</tr>
<tr>
<td>• EART 1050 Applied Electrical Math</td>
<td>5.0</td>
</tr>
<tr>
<td>• EART 1180 Basic Electrical Lab</td>
<td>5.0</td>
</tr>
<tr>
<td>• EART 1260 Logic</td>
<td>2.0</td>
</tr>
<tr>
<td>• EART 1280 DC and AC Machines</td>
<td>5.0</td>
</tr>
<tr>
<td>• EART 1285 DC and AC Machines Labs</td>
<td>4.0</td>
</tr>
<tr>
<td>• EART 2110 Semiconductors Devices</td>
<td>6.0</td>
</tr>
<tr>
<td>• EART 2150 Hydraulics and Pneumatics</td>
<td>3.0</td>
</tr>
<tr>
<td>• EART 2160 Industrial Solid State Circuit</td>
<td>5.0</td>
</tr>
<tr>
<td>• EART 2250 Programmable Logic Controllers 1</td>
<td>5.0</td>
</tr>
</tbody>
</table>

**Elective Requirements:** 1 Credits

Electives in EART based on chosen option (students must see advisor for list of approved course options).

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- EART, Electrical Automation and Robotics Technology
- EGDT, Engineering Graphics and Design Technology
- ENGR, Engineering Science
- GIS, Geographic Information Systems
- MECH, Mechatronics Technology
- SURV, Land Surveying
Emergency Services

Associate Dean: Jeff Maxfield
Office: FS 202a
Telephone: 801-863-7700
E-mail: jmaxfield@uvu.edu

Department Chair: Gary Noll
Office: FS 213
Telephone: 801-863-7700
E-mail: gary.noll@uvu.edu

Faculty:
Professor
Gary Noll
Associate Professor
Jeff Maxfield
Margaret Mittelman
Barry Stone
Assistant Professor
Andrew Byrnes
Steve Alfred
John Fisher
Lecturer
Rodger Broome
Eric Russell
Advisor: Megan Stone
Office: FS 216
Telephone: 801-863-7700
E-mail: emergencieservices@uvu.edu

Advisor: Wendy Farnsworth
Office: FS 214
Telephone: 801-863-7700
E-mail: emergencieservices@uvu.edu

Institute of Emergency Services and Homeland Security
(Under direction of the Associate Dean)

Utah Fire and Rescue Academy (UFRA)
Director: Hugh Connor
Assistant Director: Jolene Nuttall
Assistant Director: Coy Porter

Office and Training Facilities:
Provo Airport
3131 Mike Jense Parkway
Telephone: 801-863-7700
Fax: 801-863-7738
http://www.uvu.edu/ufra

Advisory Committee/Utah Fire Service Standards and Training Council: Ryan Eckhardt, Utah State Fire Chiefs’ Association; Brady George, Utah State Fireman’s Association; Mike Riley, Utah Hazardous Materials Institute; Gary Hodson, International Association of Arson Investigators; Tracy Dunford, Fire Management Coordinator, Utah Division of Forestry, Fire and State Lands; Craig Golden, Professional Firefighters of Utah; Ray Stokes, Utah Fire Service Certification Council; Jason Earl, Utah Training Officers Association; Merlon Spendlove, Emergency Medical Services; Brent Halladay, Utah State Fire Marshall’s Office.

Advisory Board/Institute of Emergency Services and Homeland Security: Vincent Liddiard, Dugway Proving Grounds; Jeff Maxfield, Utah Valley University; Steve Lutz, Utah Valley University; Darryl Pranger, Utah Valley University; Ron Morris, Utah State Fire Marshal; Gary Noll, Utah Valley University; Lieutenant Colonel Bart Berry, Utah National Guard; Shawn Peppers, Division of Homeland Security-Private Sector and Critical Infrastructure; Mary Maughan, Senator Robert Bennett’s Office (ad hoc).

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

Emergency Services

PROGRAM REQUIREMENTS FOR ENROLLMENT
There are departmental requirements for Recruit Candidate Academy (RCA) courses and Firefighter/Paramedic courses. Enrollment into certain off-campus or block course sections each semester may be limited to those with existing professional certifications and/or already employed by an emergency services agency.

Recruit Candidate Academy courses include ESFF 131A, 131B, 131C, 131D, and 1340. ESFF 1120 is required for students prior to graduating from the RCA. Preference is given to students that have completed this course prior to the RCA. Enrollment is done by means of a program application process. Prior to enrollment, students must:

1. Complete all UVU admission requirements.
3. Complete ESFF 1000 and ESEC 1140 courses with at least a “C-” or equivalent.
4. Obtain Accuplacer Sentence Skills/Reading Comprehension scores of 85+/65+, or ACT English/ACT Reading scores of 18+/18+, or ACT English/ACT Composite scores of 19+/19+, or SAT English score of 500+, or completion of ENGH 0990 or higher. ACT or SAT reports may not be older than 10 years.
5. Obtain Accuplacer Arithmetic score is 100 or Elementary Algebra score of 44-58 or ACT mathematics score of 19+, or SAT mathematics score of 450+, or completion of MAT 0990 or higher. ACT or SAT reports may not be older than 10 years.
6. Successfully complete an approved Physical Ability Test (typically the CPAT) within 9 months of start date.
7. Obtain a physical examination that includes a current TB test within 6 months of start date.
8. Be at least 18 years old and have a valid driver’s license.
9. Pass a Recruit Candidate Academy review board.

Paramedic program courses include ESEC 3110, 3120, 3130, 3140, 4110, and 4120. Enrollment is done by means of a program application process. Prior to enrollment students must:

1. Complete ZOOL 1090 with a grade of “C” or higher.
2. Obtain Accuplacer Sentence Skills/Reading Comprehension scores of 85+/65+, or ACT English/ACT Reading scores of 18+/18+, or ACT English/ACT Composite scores of 19+/19+, or SAT English score of 500+, or completion of ENGH 0990 or higher. ACT or SAT reports may not be older than 10 years.
3. Obtain Accuplacer Arithmetic score is 100 or Elementary Algebra score of 44-58 or ACT mathematics score of 19+, or SAT mathematics score of 450+, or completion of MAT 0990 or higher, or completion of ESFF 1350. ACT or SAT reports may not be older than 10 years.

EMPLLOYMENT OUTLOOK

<table>
<thead>
<tr>
<th>Profession</th>
<th>Positions (Nationally)</th>
<th>Median Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Manager</td>
<td>12,000+*</td>
<td>$50,460.00*</td>
</tr>
<tr>
<td>Law Enforcement</td>
<td>633,700+*</td>
<td>$51,410.00*</td>
</tr>
<tr>
<td>Fire and Rescue</td>
<td>298,000+*</td>
<td>$44,290.00*</td>
</tr>
<tr>
<td>Fire Inspectors and Investigators</td>
<td>12,900+*</td>
<td>$33,030.00*</td>
</tr>
</tbody>
</table>

*Current employment/salary statistics according to the Bureau of Labor Statistics

CLASS SCHEDULING
Emergency Services classes are scheduled to meet the needs of traditional students and firefighters working various shift assignments.

During each semester, classes are offered during the day, afternoons, evenings and weekends. Classes designed primarily for working firefighters are scheduled on a weekend or seminar basis, and are often available for either college credit or continuing education credit. The seminar sessions are not always listed in the College semester schedule, but are announced through the bi-monthly Straight Tip newsletter. For more information on currently scheduled classes, call (801) 863-7700, or check our web page at www.uvu.edu/ufra.
4. Be able to comply with criminal background check requirements of UCA 26-3a-310 for certification as a paramedic in the state of Utah.
5. Have a current Utah EMT-Basic certification and have current CPR certification.
6. Be at least 18 years old and have a valid driver’s license.
7. Have current vaccinations, including Hepatitis B, MMR and Tdap.
8. Have current TB test results within one calendar year.
9. Obtain a current physical examination.
10. Pass a paramedic course entry examination and interview.

**PROGRAMS**

Programs Available: Bachelor of Science in Emergency Services Administration: Emergency Management; Bachelor of Science in Emergency Services Administration: Emergency Care; Associate in Science in Emergency Services; Associate in Applied Science in Emergency Services: Fire Officer; Associate in Applied Science in Emergency Services: Emergency Care; Associate in Applied Science in Wildland Fire Management; One-Year Certificate: Fire Recruit Candidate; One-Year Certificate: Paramedic.

Students may earn only one Associate in Applied Science Degree in Emergency Services that is posted to the UVU transcript.

**Certificate in Firefighter Recruit Candidate** 31 Credits
Discipline Core Requirements: 31 Credits

Complete the following:
- ESEC 1140 Emergency Medical Technician - Basic 9.0
- ESFF 1000 Introduction to Emergency Services and Ability Testing 3.0
- ESFF 100A Introduction to Emergency Services (3.0)
- ESFF 100B Firefighter Physical Ability Testing (1.0)
- ESFF 1120 Principles of Fire and Emergency Services Safety and Survival 3.0
- ESFF 131A Recruit Candidate Academy I 3.0
- ESFF 131B Recruit Candidate Academy II 3.0
- ESFF 131C Recruit Candidate Academy III 3.0
- ESFF 131D Recruit Candidate Academy IV 3.0
- ESFF 1340 Hazardous Materials First Responder 3.0

Graduation Requirements:
1. Overall grade point average of 2.0 (C) or above.
2. Overall grade point average of 2.0 (C) or above.
3. 3.0 or higher, with completion of each Emergency Services class with a C- or higher.

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 Service Certification System. Students are also eligible for certification at the Emergency Medical Technician-Basic level through the Utah Bureau of Emergency Medical Services.

**Certificate in Paramedic** 31 Credits
Discipline Core Requirements: 31 Credits

Complete the following:
- ESEC 3110 Paramedic I 5.0
- ESEC 3120 Paramedic I Lab 3.0
- ESEC 3130 Paramedic II 7.0
- ESEC 3140 Paramedic III 4.0
- ESEC 4110 Paramedic IV 6.0
- ESEC 4520 Paramedic Clinical Concepts 6.0

Graduation Requirements:
1. Overall grade point average of 2.0 (C) or above. 
2. Completion of each Emergency Medical Care paramedic course.
3. Completion of each Emergency Medical Technician/paramedic course.

**AAS in Emergency Services** 63 Credits
General Education Requirements: 16 Credits
- ENGL 1010 Introduction to Writing 3.0
- ESFO 1350 Fire Protection Hydraulics and Water Supply 3.0
- MAT 1010 Intermediate Algebra (4.0)
- MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)
- Any approved Humanities, Fine Arts, or Foreign Language Distribution Course (COMM 1020 Recommended)
- Any approved Behavioral Science, Social, or Political Science Distribution Course (PSY 1010 or SOC 1010 Recommended)
- Any approved Biology or Physical Science Distribution Course
- Any approved Physical Education, Health, Safety or Environment Course (PES 1097 recommended)

Discipline Core Requirements: 15 Credits
- ESFF 131A Recruit Candidate Academy I 3.0
- ESFF 131B Recruit Candidate Academy II 3.0
- ESFF 131C Recruit Candidate Academy III 3.0
- ESFF 131D Recruit Candidate Academy IV 3.0
- ESFF 1340 Hazardous Materials First Responder 3.0

Emphasis in Fire Officer 31 Credits
General Education Requirements: 15 Credits
- ESFO 1100 Introduction to Writing 3.0
- ESFO 1350 Fire Protection Hydraulics and Water Supply 3.0
- MAT 1010 Intermediate Algebra (4.0)
- MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)
- Any approved Humanities, Fine Arts, or Foreign Language Distribution Course (COMM 1020 Recommended)
- Any approved Behavioral Science, Social, or Political Science Distribution Course (PSY 1010 or SOC 1010 Recommended)
- Any approved Biology or Physical Science Distribution Course
- Any approved Physical Education, Health, Safety or Environment Course (PES 1097 recommended)

Discipline Core Requirements: 18 Credits
Choose 18 credits from the following:
- ESWF 1310 S131 Firefighter Type 1 (0.5)
- ESWF 1330 S133 Look Up Look Down Look Around (0.5)
- ESWF 1490 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 2310 S231 Crew Boss Single Resource (2.0)
- ESWF 2340 S234 Ignition Operations (2.0)
- ESWF 2430 S243 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 Followship to Leadership (1.0)
- ESWF 2900 S290 Intermediate Wildland Fire Behavior (2.0)

**Emphasis in Firefighter/Emergency Care** 31 Credits

Choose one of the following:
- ESWF 100A Introduction to Emergency Services (3.0)
- ESWF 1120 Principles of Fire and Emergency Services Safety and Survival (3.0)
- ESEC 1140 Emergency Medical Technician - Basic (9.0)

Student/Non-Affiliated Option
- ESEC 3110 Paramedic I (5.0)
- ESEC 3120 Paramedic I Lab (3.0)
- ESEC 3130 Paramedic II (7.0)

Student/Non-Affiliated Option:
- ESMG 491R Topics in Cardiology and Medical Trends (1.0)
- ESMG 492R Topics in Trauma and Phamacology (1.0)
- ESMG 493R Topics in Medical Litigation (1.0)

**AAS in Wildland Fire Management** 63 Credits
General Education Requirements: 16 Credits
- ENGL 1010 Introduction to Writing 3.0
- ESFO 1350 Fire Protection Hydraulics and Water Supply 3.0
- MAT 1010 Intermediate Algebra (4.0)
- MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)
- Any approved Humanities, Fine Arts, or Foreign Language Distribution Course (COMM 1020 Recommended)
- Any approved Behavioral Science, Social, or Political Science Distribution Course (PSY 1010 or SOC 1010 Recommended)
- Any approved Biology or Physical Science Distribution Course
- Any approved Physical Education, Health, Safety or Environment Course (PES 1097 recommended)

Discipline Core Requirements: 18 Credits
Choose 18 credits from the following:
- ESWF 1310 S131 Firefighter Type 1 (0.5)
- ESWF 1330 S133 Look Up Look Down Look Around (0.5)
- ESWF 1490 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 2310 S231 Crew Boss Single Resource (2.0)
- ESWF 2340 S234 Ignition Operations (2.0)
- ESWF 2430 S243 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 Followship to Leadership (1.0)
- ESWF 2900 S290 Intermediate Wildland Fire Behavior (2.0)
Emergency Services

Elective Requirements: 29 Credits
- Any Emergency Services or advisor approved courses

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.

AS Pre-Major in Emergency Services 60 Credits

General Education Requirements: 35 Credits
- Complete the following:
  - 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)

AS Pre-Major in Emergency Services 30 Credits

General Education Requirements: 35 Credits
- Complete the following:
  - 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)

Discipline Core Requirements: 25 Credits
- ESFF 1000 Introduction to Emergency Services 3.0 and Ability Testing
- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0) or
- UDS 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

Emphasis Requirements: 28 Credits
- ESFF 1000 Introduction to Emergency Services 4.0 and Ability Testing
- or Sufficient emergency services work experience
- or ESFF 1000 Introduction to Emergency Services 3.0
- and ESFF 1000 Firefighter Physical Ability Testing (1.0)
- or ESFF 1000 Introduction to Emergency Services 3.0

Emphasis in Emergency Care 31 Credits

Graduation Requirements:
1. Completion of a minimum of 60 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 20 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. Students completing a bachelor degree following the 2008 or later catalog must complete one course that meets the Global/Intercultural Requirement, indicated by a course number ending in G. For a complete listing, see page 25.

BS in Technology Management 25 Credits

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Emergency Services 45 Credits

Emphasis Requirements: 45 Credits
- Any Emergency Services advisor approved courses

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- ESAF, Emergency Services-Aircraft Rescue
- ESEC, Emergency Services-Emergency Care
- ESFF, Emergency Services - Firefighting
- ESFO, Emergency Services - Fire Officer
- ESMG, Emergency Services - Management
- ESWF, Emergency Services - Wildland
- Firefighter
Engineering Graphics & Design Technology

Department Chair: Robert Price
Office: CS 704g
Telephone: 801-863-8145 or 801-863-8363

Faculty:
Professor
Rod Kendall
David Manning
Darin Taylor
Associate Professor
Danial Perry
Robert Price
Sid Smith
Assistant Professor
Howard Bezzant

Office Manager: Christine Bigelow
Office: CS 704
Telephone: 801-863-8363
Advisor: Jessie Stewart
Office: CS 635
Telephone: 801-863-6597

Advisory Committees:
Mechanical: Jackson McCourt, Caldera; Mike Thompson, Flowsieve; Dan Olsen, Globalism.

Structural: Steve Cosper, CKR Engineering; Terry Beiglely, Intermountain Bridge Detailers; Pam Foote, SEI; Steve Holdaway, Tectonix Steel, Inc.

Architectural: Glen Barton, CEntr; Kevin Madson, KMA & Associates; Tyson Munford, Log Craft; Paul Magleby, Magleby Companies Inc.; Steve Sandstrom, Sandstrom Associates Architecture.

Electrical: Keith Hegerhorst, Hegerhorst Power Engineering; Kevin Armatage, L-3 Communications Systems.

Civil: Alan York, Provo City; Matt Brown, M.W. Brown Engineering; Brant Tuttle, Northern Engineering, Scott Bartlett, Boss Engineering.

High School Liaison: John Howden, Payson High School.

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

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, 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 technological 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.

JOB DESCRIPTION – ENGINEERING GRAPHICS AND DESIGN TECHNOLOGY
Engineering Graphics Technicians (formerly Drafters/Designers) translate ideas from design layouts, specifications, rough sketches, and calculations of engineers & architects into working drawings, maps, plans, and illustrations which are used in making products, structures, land development, and civil infrastructure. They prepare 3D computer models and 2D drawings using Computer Aided Drafting; Design, and 3D modeling systems. They perform design and drafting work in mechanical, electrical/electronic, structural, architectural, civil, piping, and technical illustration fields. They make mathematical calculations using algebra, trigonometry, plane and solid geometry, applied mechanics, strength of materials and basic physics.

The Engineering Graphics Technician works closely with both professional and nonprofessional people and acts as a liaison between the shop or field and the engineering office. Appearance and professional work habits are essential.

JOB DESCRIPTION – LAND SURVEYING
Surveying Technicians work out-of-doors performing surveys of property, roads, pipelines, subdivisions, and all types of construction projects. They may work in specialized fields such as topographic mapping and mine and hydrographic surveying. They use levels, total stations, and global positioning system equipment. They make mathematical calculations using algebra, trigonometry, and plane and solid geometry. They may also 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.

AAS in Drafting Technology 67 Credits

General Education Requirements 19 Credits

ENGLISH
• ENGL 1010 Introduction to Writing (3.0)
• or MGMT 2220 Business Communication (3.0)

MATHEMATICS
• EGD T 1600 Technical Math—Algebra (3.0)
• or MATH 1050 College Algebra (4.0)
• or EGD T 1610 Technical Math—Geometry/Trig (3.0)

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
• PHIL 2050 Ethics and Values (highly recom-
• or Any approved Humanities, Fine Arts, or Foreign Language Distribution Course

SOCIAL AND BEHAVIORAL SCIENCE
• or MGMT 3000 Organizational Behavior (3.0)
• or Any approved Behavioral Science, Social, or Political Science

BIOLOGY OR PHYSICAL SCIENCE
• PHYS 1010 Elementary Physics (3.0)

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
• Any approved Physical Education, Health, Safety or Environment Course

Discipline Core Requirements: 40 Credits

• EGD T 1010 Electrical-Electronic Drafting (3.0)
• EGD T 1020 3D Architectural Modeling (3.0)
• EGD T 1040 Computer Aided Drafting--AutoCAD (3.0)
• EGD T 1070 3 Dimensional Computer Modeling (3.0)
• EGD T 1100 Architectural Drafting (3.0)
• EGD T 1200 Mechanical Drafting (3.0)
• EGD T 1300 Structural Drafting (3.0)
• EGD T 1400 Surveying (4.0)
• EGD T 2020 Descriptive Geometry (3.0)
• EGD T 2040 Piping Drafting (2.0)
• EGD T 2050 Plate Layout (2.0)
• EGD T 2600 Statics (3.0)
• EGD T 2610 Strength of Materials (3.0)
• EGD T 2850 Cooperative Correlated Instruc-
• or EGD T 2860 Cooperative Correlated Instruc-
• or EGD T 2870 Portfolio and Career Preparation (1.0)

Elective Requirements: 8 Credits

Choose three courses from the following list for a minimum of 8 credits.

• EGD T 1060 MicroStation (2.0)
• EGD T 1080 AutoLisp (2.0)
• EGD T 2100 Advanced Electrical—CAD (2.0)
• EGD T 2100 Advanced Architectural (3.0)
• EGD T 2200 Advanced Mechanical—CAD (3.0)
• EGD T 2300 Advanced Structural—CAD (3.0)
• EGD T 2310 Structural Steel Modeling (3.0)
• EGD T 2400 Surveying Applications (4.0)
• MGMT 2500 Land Development (1.5)
• EGD T 2710 Special Problems—Mechanical (2.0)
• EGD T 2720 Surveying Problems (Surveying) (2.0)
• EGD T 2730 Special Problems—Civil Draft-
• EGD T 2740 Special Problems—Architect-
• EGD T 2750 Special Problems—Architectural Rendering (2.0)
• EGD T 2760 Special Problems—Structural (2.0)
• EGD T 2780 Special Problems—Electrical (2.0)
• EGD T 281R Cooperative Work Experience (1.0)

Graduation Requirements:
1. Completion of a minimum of 67 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 require-
   ments, including a portfolio and exit interview.
AS Pre Major in Drafting Technology 61 CREDITS

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing: Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0
- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following: 3.0
- HIST 2720 US History since 1877 (3.0)
- and HIST 2721 US History since 1877 (3.0)
- and HIST 1700 American Civilization (3.0)
- and HIST 1740 US Economic History (3.0)
- and POLS 1000 American Heritage (3.0)
- and 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: 16 Credits
- Required courses (100 level or higher) 16.0

Elective Requirements: 10 Credits
- Electives (100 level or higher) 10.0

Graduation Requirements:
- Completion of a minimum of 61 semester credits.
- 2.0 Overall grade point average of 2.0 (C) or above.
- Completion of GE and specified departmental requirements.

AS Pre Major in Geomatics 62 CREDITS

General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing: Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete the following:
- MATH 1100 Introduction to Calculus (4.0) 4.0

Graduation Requirements:
- Completion of a minimum of 62 semester credits.
- 2.0 Overall grade point average of 2.0 (C) or above.
- Completion of GE and specified departmental requirements.

BS in Geomatics 125 CREDITS

General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Science and Technology (3.0)
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete the following:
- MATH 1110 Introduction to Calculus (4.0) 4.0

Graduation Requirements:
- Completion of a minimum of 125 semester credits required for a BS degree; at least 40 credit hours must be upper-division courses.
- 2.0 Overall grade point average 2.5 or above with a minimum of 3.0 GPA in all Geomatics courses. No grade lower than a "C" in core discipline courses including: (Geomatics, Measurement, Legal, and Surveying Practice core).
- 3.0 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.
- Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

BS in Technology Management 125 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Drafting Technology 45 CREDITS

Emphasis Requirements: 45 Credits

Complete the following:
- ENGL 1010 Technical Writing 3.0
- ENGL 1040 Computer Aided Drafting--AutoCAD 3.0
- ENGL 1080 AutoCAD 3.0
- ENGL 1100 Architectural Drafting 3.0
- ENGL 1200 Mechanical Drafting 3.0
- ENGL 1300 Structural Drafting 3.0
- ENGL 1400 Surveying 4.0
- ENGL 2020 Descriptive Geometry 3.0
- ENGL 2040 Piping Drafting 3.0
- ENGL 2050 Plate Layout 2.0
- ENGL 2600 Statics 3.0
- ENGL 2610 Strength of Materials 3.0

Complete 6 credits from the following list or any other courses with department chair approval.
- ENGL 1060 Technical Writing 3.0
- ENGL 2020 Advanced Technical Writing--CAD (2.0) 6.0
• EGDT 2100 Advanced Architectural (3.0)
• EGDT 2200 Advanced Mechanical–CAD (3.0)
• EGDT 2300 Advanced Structural–CAD (3.0)
• EGDT 2310 Structural Steel Modeling (3.0)
• EGDT 2400 Surveying Applications (4.0)

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.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- EART, Electrical Automation and Robotics Technology
- EGDT, Engineering Graphics and Design Technology
- ENGR, Engineering Science
- GIS, Geographic Information Systems
- MECH, Mechatronics Technology
- SURV, Land Surveying
The Basic Composition/ESL 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 both the Basic Composition and ESL programs emphasize 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/or written arguments and learn the conventions of academic English. The Basic Composition/ESL 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, computerized and on-line instruction, collaborative learning activities, peer and instructor tutorials, and individualized instruction to meet student needs.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- ENGH, English-Basic Composition
- ESL, English as a Second Language
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 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.

Students in English at UVU may choose from the following program options: BA/BS in English with an emphasis in Creative Writing, Literary Studies, or Writing Studies; BA/BS in English Education; BA/BS in Integrated Studies with an emphasis in English; AA/AS Emphasis in English; AA/AS Technical Communication. Specialization. Minors are available in Creative Writing, English Education, Literary Studies, and Technical Communication. A certification in Technical Writing is available for students who have a completed associate’s degree or higher from a regionally accredited institution of higher learning and one year of full-time employment. Students who wish to learn more about any of these programs should contact the English and Literature Department for further information concerning course requirements.

**PROGRAMS**

### AA/AS Pre Major in English

<table>
<thead>
<tr>
<th>Distribution Courses</th>
<th>Credits</th>
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<tbody>
<tr>
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</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>3.0</td>
</tr>
<tr>
<td>ENGL 1020 Intermediate Writing-Social Sciences</td>
<td>3.0</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing-Science and Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>Complete one of the following</td>
<td>3.0</td>
</tr>
<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>3.0</td>
</tr>
<tr>
<td>Complete one of the following</td>
<td>3.0</td>
</tr>
<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>
<tr>
<td>Compete the following</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Discipline Core Requirements: 15 Credits

Select 9 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2510 American Literature before 1865</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 2520 American Literature after 1865</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 2610 British Literature before 1800</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 2620 British Literature after 1800</td>
<td>3.0</td>
</tr>
</tbody>
</table>

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

- FOR AA DEGREE: One Foreign Language
- FOR AA DEGREE: Any course 1000 or higher
- FOR AS DEGREE: Any course 1000 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.
5. For the AA degree, completion of 8 credit hours of course work from one foreign language.

### AA/AS Pre Major in English with an Emphasis in Technical Communication

#### 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>3.0</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing-Social Sciences</td>
<td>3.0</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing-Science and Technology</td>
<td>3.0</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>3.0</td>
</tr>
<tr>
<td>MATH 1040 Introduction to Statistics</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1050 College Algebra</td>
<td>3.0</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>3.0</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>
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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>3.0</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>2.0</td>
</tr>
</tbody>
</table>

### Distribution Courses

#### Biology

- ENGL 2030 Writing for Social Change
- ENGL 2050 Writing
- ENGL 2250 Creative Process and Imaginative Writing
- or ENGL 225H Creative Process and Imaginative Writing
- or ENGL 2310 Technical Communication

#### English

- Select ONE from the following:
  - ART 1400 Graphic Computer Applications
  - ENGL 2310 Technical Communication

- Complete the following:
  - PHIL 2050 Ethics and Values
  - HLTH 1100 Personal Health and Wellness
  - or PES 1097 Fitness for Life

- Complete the following:
  - ENGL 2050 Writing
  - ENGL 2250 Creative Process and Imaginative Writing
  - or ENGL 225H Creative Process and Imaginative Writing

- Complete the following:
  - ENGL 2030 Writing for Social Change
  - ENGL 2050 Writing
  - ENGL 2250 Creative Process and Imaginative Writing
  - or ENGL 225H Creative Process and Imaginative Writing
  - or ENGL 2310 Technical Communication

- Complete the following:
  - ART 1400 Graphic Computer Applications

- Complete the following:
  - ENGL 2050 Writing
  - ENGL 2250 Creative Process and Imaginative Writing
  - or ENGL 225H Creative Process and Imaginative Writing
  - or ENGL 2310 Technical Communication

- Complete the following:
  - ART 1400 Graphic Computer Applications

- Complete the following:
  - ENGL 2050 Writing
  - ENGL 2250 Creative Process and Imaginative Writing
  - or ENGL 225H Creative Process and Imaginative Writing
  - or ENGL 2310 Technical Communication

- Complete the following:
  - ART 1400 Graphic Computer Applications
### BA/BS in English 120 Credits

**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:** 35-36 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>3.0</td>
</tr>
<tr>
<td>or</td>
<td>ENGL 2510</td>
<td>Intermediate Writing--Humanities/</td>
</tr>
<tr>
<td>or</td>
<td>ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
</tr>
</tbody>
</table>

**Distribution Courses:**
1. Quantitative Reasoning (3.0)
2. Introduction to Statistics (3.0)
3. College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)
4. US History to 1865 (3.0)
5. US History since 1877 (3.0)
6. American Civilization (3.0)
7. American Heritage (3.0)
8. American National Government (3.0)
9. American Political Thought (3.0)
10. Ethics and Values (3.0)
11. Visual Rhetoric (3.0)
12. Typography and Layout II (3.0)
13. Introduction to Statistics (3.0)
14. Quantitative Reasoning (3.0)
15. Social Sciences (3.0)

**Emphasis in Creative Writing 27 Credits**

**Emphasis Requirements:**
1. Complete ALL of the following:
   - ENGL 3420 Intermediate Fiction Writing (3.0)
   - ENGL 3440 Intermediate Poetry Writing (3.0)
   - ENGL 3450 Intermediate Creative Nonfiction Writing (3.0)
   - ENGL 412R School Literature (3.0)
   - ENGL 4420 Advanced Fiction Writing (3.0)
   - ENGL 4430 Advanced Poetry Writing (3.0)
   - ENGL 4450 Advanced Creative Nonfiction Writing (3.0)

**Footnotes:**
- Should be taken early on in the student's course of study, by the junior year at the latest.
- Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.

**Emphasis in Literary Studies 27 Credits**

**Emphasis Requirements:**
1. Complete ALL of the following:
   - ENGL 3610 Medieval Literature (3.0)
   - ENGL 3620 Tudor British Literature (3.0)
   - ENGL 3640 Restoration and 18th Century British Literature (3.0)
   - ENGL 3651 Shakespeare: Sonnets and Poems (3.0)
   - ENGL 3652 Shakespeare: Sonnets and Poems (3.0)
   - ENGL 3653 Shakespeare: Sonnets and Poems (3.0)
   - ENGL 3654 Shakespeare: Sonnets and Poems (3.0)
   - ENGL 3655 Shakespeare: Sonnets and Poems (3.0)

**Footnotes:**
- Should be taken early on in the student's course of study, by the junior year at the latest.
- ENGL 3010 Rhetorical Theory.

**BA/BS in English Education 122 Credits**

**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:** 35-36 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>3.0</td>
</tr>
<tr>
<td>or</td>
<td>ENGL 2510</td>
<td>Intermediate Writing--Humanities/</td>
</tr>
<tr>
<td>or</td>
<td>ENGL 2020</td>
<td>Intermediate Writing--Science and Technology (3.0)</td>
</tr>
</tbody>
</table>

**Distribution Courses:**
1. Quantitative Reasoning (3.0)
2. Introduction to Statistics (3.0)
3. College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)
4. US History to 1865 (3.0)
5. US History since 1877 (3.0)
6. American Civilization (3.0)
7. American Heritage (3.0)
8. American National Government (3.0)
9. American Political Thought (3.0)
10. Ethics and Values (3.0)
11. Visual Rhetoric (3.0)
12. Typography and Layout II (3.0)
13. Introduction to Statistics (3.0)
14. Quantitative Reasoning (3.0)
15. Social Sciences (3.0)

**Emphasis in Creative Writing 27 Credits**

**Emphasis Requirements:**
1. Complete ALL of the following:
   - ENGL 3420 Intermediate Fiction Writing (3.0)
   - ENGL 3440 Intermediate Poetry Writing (3.0)
   - ENGL 3450 Intermediate Creative Nonfiction Writing (3.0)
   - ENGL 412R School Literature (3.0)
   - ENGL 4420 Advanced Fiction Writing (3.0)
   - ENGL 4430 Advanced Poetry Writing (3.0)
   - ENGL 4450 Advanced Creative Nonfiction Writing (3.0)

**Footnotes:**
- Should be taken early on in the student's course of study, by the junior year at the latest.
- Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.

**Emphasis in Literary Studies 27 Credits**

**Emphasis Requirements:**
1. Complete ALL of the following:
   - 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 3651 Shakespeare: Sonnets and Poems (3.0)
   - ENGL 3652 Shakespeare: Sonnets and Poems (3.0)
   - ENGL 3653 Shakespeare: Sonnets and Poems (3.0)
   - ENGL 3654 Shakespeare: Sonnets and Poems (3.0)

**Footnotes:**
- Should be taken early on in the student's course of study, by the junior year at the latest.
- ENGL 3010 Rhetorical Theory.

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**For the AA degree, completion of 8 credit hours of General Education requirements and specified departmental requirements.**

**For the BA degree, completion of 16 credit hours of General Education requirements and specified departmental requirements.**

**For the BS degree, completion of any courses 1000 or higher.**

**For the AA degree, completion of 6 credit hours of course work from one foreign language.**

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**Final Footnotes:**
- GPA of 2.75 or higher.
- For AA degree, completion of a minimum of 60 semester credits.
- For BA degree, completion of 8 credit hours of course work from one foreign language.
Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865; and ENGL 2520, American Literature after 1865.

Graduation Requirements:
1. Completion of at least 120 semester credits.
2. A minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
3. Completion of GE and specified departmental requirements.
4. For the BA degree, completion of 16 credit hours of course work from one foreign language to include the 1010, 1020, 2010, and 202G levels or transferred equivalents.

Minor in English Creative Writing

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2625 Introduction to Creative Writing (3.0)</td>
</tr>
<tr>
<td>ENGL 3440 Intermediate Poetry Writing (3.0)</td>
</tr>
<tr>
<td>ENGL 3450 Intermediate Creative Nonfiction Writing (3.0)</td>
</tr>
</tbody>
</table>

Elective Requirements: 3 Credits
- Choose from the following:
  - ENGL 3050 Advanced Editing and Design for Print Media (3.0)
  - ENGL 373R Literature of Cultures and Places (3.0)
  - ENGL 4350 Senior Project (2.0)
  - ENGL 441R Eminent Authors (3.0)
  - ENGL 446R Internship (1.0)
  - ENGL 450R Directed Readings (1.0)

Graduation Requirements:
1. Complete all courses with no grade lower than a C-.

Minor in English Literary Studies

<table>
<thead>
<tr>
<th>Matriculation Requirements: 18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2600 Critical Introduction to Literature (3.0)</td>
</tr>
<tr>
<td>ENGL 2510 American Literature before 1865 (3.0)</td>
</tr>
<tr>
<td>ENGL 2520 American Literature after 1865 (3.0)</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 18 Credits
- 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)
- ENGL 3710 Literature of the Sacred (3.0)
- ENGL 376G World Literature (3.0)
- ENGL 378G Mormon Literature (3.0)
- ENGL 373R Literature of Cultures and Places (3.0)

Graduation Requirements:
1. Complete all courses with no grade lower than a C-.

Minor in English Education

<table>
<thead>
<tr>
<th>Matriculation Requirements: 18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2510 American Literature before 1865 (3.0)</td>
</tr>
<tr>
<td>ENGL 2520 American Literature after 1865 (3.0)</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 18 Credits
- ENGL 3650 Modern American Literature (3.0)
- ENGL 3890 Contemporary American Literature (3.0)
- ENGL 3520 Modern English Grammars (3.0)
- ENGL 3540 Advanced Poetry Writing (3.0)

Elective Requirements: 3 Credits
- Choose from the following:
  - ENGL 3440 Intermediate Poetry Writing (3.0)
  - ENGL 3450 Intermediate Creative Nonfiction Writing (3.0)
  - ENGL 441R Eminent Authors (3.0)
  - ENGL 450R Directed Readings (1.0)

Graduation Requirements:
1. Complete all courses with no grade lower than a C-.
English & Literature

- ENGL 476G Multi-ethnic Literature in America (3.0)
- ENGL 486R Topics in Literature (3.0)
- ENGL 490R Directed Readings (1.0)

Graduation Requirements:
1. Complete all courses with no grade lower than a C-.

Minor in
Technical Communication  20 Credits
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 of Arts degree. Minimum grade of "C" in all courses.
2. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements:  20 Credits
Complete the following:
- ENGL 3010 Rhetorical Theory (3.0)
- ENGL 401R Topics in Rhetoric (3.0)
- ENGL 3300 Technical Communication for Technology Students (3.0)
Complete FOUR courses from the following:
- ENGL 2600 Critical Introduction to Literature (3.0)
- ENGL 3050 Advanced Editing and Design for Print Media (3.0)
- ENGL 3320 Grant and Proposal Writing (3.0)
- ENGL 3340 Digital Document Design (3.0)
- ENGL 4320 Document Management (4.0)
- ENGL 436R Topics in Technical Communication (3.0)
Capstone Course: Complete ONE of the following: 2.0
- ENGL 4350 Senior Project (2.0)
- ENGL 481R Internship (1.0) (must be taken for 2 credits)

BA/BS in Integrated Studies  123 Credits
The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in English  18 Credits
Emphasis Requirements:  18 Credits
Complete the following:
- ENGL 2600 Critical Introduction to Literature (3.0)
Complete 15 hours of upper-division ENGL courses. Course selection must be approved by English advisor. 15.0

Certification in
Technical Communication  15 Credits
Matriculation Requirements:
1. AA/AS degree or higher from a regionally accredited institution of higher learning and one year full-time employment.

Discipline Core Requirements:  12 Credits
Complete the following:
- ENGL 2050 Editing (3.0)
- ENGL 2310 Technical Communication (3.0)
- ENGL 3300 Technical Communication for Technology Students (3.0)
- ENGL 3340 Digital Document Design (3.0)
Elective Requirements:  3 Credits
Complete ONE of the following: 3.0
- ENGL 3320 Grant and Proposal Writing (3.0)
- ENGL 4320 Document Management (4.0)
- ENGL 436R Topics in Technical Communication (3.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- ENGL, English and Literature
English as a Second Language

Department of Basic Composition/English as a Second Language (ESL)

Program Director: Jim Pettersson
Office: LA 234f
Telephone: 801-863-8721
Website: http://www.uvu.edu/esl/

Faculty:
Professor
Jim Pettersson
Associate Professor
Heidi Condie
Kevin Eyraud
Lecturer
Timothy Hall
Julina Magnusson

Administrative Assistant: Elizabeth Nield
Office: LA 234g
Telephone: 801-863-6865

Advisor: Lisa Williamson
Office: LA 234a
Telephone: 801-863-8729
Fax: 801-863-6462

Department Chair: Deborah Marrott
Office: LA 234e
Telephone: 801-863-8823

University College
Interim Dean: K.D. Taylor
Office: LA 210c
Telephone: 801-863-8949

OTHER SERVICES
Writing Center
Faculty Director: Joshua Hilst
Coordinator: Leigh Ann Copas
Assistant Coordinator: Rebecca Disrud
Office: LI 208
Telephone: 801-863-8936

Learning Assistance
Manager: Pat Nelson
Office: LC 405q
Telephone: 801-863-7418

English-speaking students understand and successfully use academic English at an American university. To accomplish this goal, our faculty and coursework provide a broad range of excellent academic and social opportunities. These opportunities help students develop and show proficiency in the skills of 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 ESL Program exit criteria are admitted into the university to begin their undergraduate or graduate academic studies.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- ENGH, English-Basic Composition
- ESL, English as a Second Language
Exercise Science & Outdoor Recreation

Department Chair: Jason V. Slack
Office: PE 147k
Telephone: 801-863-7488
E-mail: Jason.Slack@uvu.edu

Advisor: Steven Namanny
Office: PE 151c
Telephone: 801-863-7456
E-mail: namannya@uvu.edu

Exercise Science Coordinator: Jason V. Slack
Office: PE 147k
Telephone: 801-863-7488
E-mail: slackja@uvu.edu

Program Coordinator and Advisor, PETE:
Shauna McGhie
Office: PE 147m
Telephone: 801-863-8663
E-mail: mcghieash@uvu.edu

Program Coordinator, Outdoor Recreation:
Betsy Lindley
Office: PE 147g
Telephone: 801-863-6094
E-mail: lindlebe@uvu.edu

Faculty:
Professor
Shauna McGhie
M. Vinson Miner
Associate Professor
Michael Bohne
Kemal Makasci
Jason V. Slack
Assistant Professor
Bret Boyer
Andrew Creer
Betsy Lindley
Robert Sawyer
Instructor
Scott Williams
Risk Manager:
Garth Tino
Administrative Assistant:
Shauna Roberts

College of Science and Health
Dean: Sam Rushforth
Office: PS 201a

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 life long 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.

PROGRAMS
The Department of Exercise Science and Outdoor Recreation offers two 4-year degrees. One offers a BA or BS in Exercise Science and Outdoor Recreation with a choice of emphasis in Exercise Science or Outdoor Recreation. Students completing the Exercise Science emphasis will be qualified for several different graduate schools and a variety of jobs including fitness and health promotion, exercise testing, corporate wellness, clinical exercise physiology, cardiac rehab, etc. This major could also lead to acceptance into medical, dental, physical therapy and other professional or graduate schools.

The Exercise Science curriculum has been designed to address student needs and market demands. Students have the opportunity to practice and understand what they learn in the classroom. The department has an exercise science laboratory with the ability to test body composition, VO2 max, lactate levels, anaerobic power, blood pressure and heart rate responses to exercise, and several other exercise parameters. Information packets are available in the Exercise Science and Outdoor Recreation Department.

Students completing the Outdoor Recreation emphasis are qualified to become park interpreters, resort recreation directors, corporate recreation managers, or community recreation directors. Supported by a strong background in recreation theory, with courses like Outdoor Leadership and Recreation Risk Management, students also choose from a variety of land and water-based skills courses, including park management, program planning, backpacking, mountain biking, avalanche awareness, canoeing, and whitewater kayaking. More than a career, a major in Outdoor Recreation teaches leadership for life because graduates exit the program with enhanced personal responsibility and ability to overcome barriers.

The second Bachelor degree is the Physical Education Teacher Education (PETE) degree. This program is designed to prepare quality candidates to teach developmentally appropriate physical education to all K-12 students. Successful completion of this program leads to Licensure in the State of Utah.

Graduates from the UVU Physical Education K-12 Teacher Education (PETE) program will be specifically qualified to teach developmentally appropriate physical education to the increasingly diverse population of students in the K-12 schools in the State of Utah. Their preparation will help meet the anticipated demands for quality elementary, as well as secondary, physical educators in the twenty-first century.

The department also offers a minor in Exercise Science and Outdoor Recreation which can be combined with other college-wide bachelor degrees. The minor provides students with a broad academic knowledge of the foundational and scientific principles in the field of Exercise Science as well as exposure to teaching Physical Education and/or coaching in the public schools.

AA/AS Exercise Science and Outdoor Recreation

<table>
<thead>
<tr>
<th>AA/AS Exercise Science and Outdoor Recreation</th>
<th>60 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Education Requirements:</strong></td>
<td>35 Credits</td>
</tr>
<tr>
<td>• ENGL 1010 Introduction to Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>• ENGL 2010 Intermediate Writing—Humanities/</td>
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</tr>
<tr>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing—Science</td>
<td>3.0</td>
</tr>
<tr>
<td>and Technology</td>
<td></td>
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<tr>
<td>Complete one of the following:</td>
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<tr>
<td>• MATH 1030 Quantitative Reasoning</td>
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</tr>
<tr>
<td>(recommended for Humanities or Arts majors)</td>
<td></td>
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<tr>
<td>• MATH 1040 Introduction to Statistics</td>
<td>3.0</td>
</tr>
<tr>
<td>(recommended for Social Science majors)</td>
<td></td>
</tr>
<tr>
<td>• MATH 1050 College Algebra (recommended for</td>
<td>3.0</td>
</tr>
<tr>
<td>Business, Education, Science, and Health</td>
<td></td>
</tr>
<tr>
<td>Professions majors)</td>
<td></td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>3.0</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>
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<tr>
<td>• POLS 1000 American Heritage (3.0)</td>
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</tr>
</tbody>
</table>

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Exercise Science & Outdoor Recreation

BA in Exercise Science and Outdoor Recreation 120 Credits

General Education Requirements: 37 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2100 Intermediate Writing—Humanities/ Social Sciences 3.0
- or ENGL 2200 Intermediate Writing—Science and Technology (3.0)
- MATH 1050 College Algebra 4.0
- Complete one of the following: 3.0
  - 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)
  - or POLS 1100 American National Government (3.0)

- Complete the following: 3.0
  - PHIL 2050 Ethics and Values
  - HLTH 1100 Personal Health and Wellness (2.0)
  - or PES 1097 Fitness for Life (required for the Exercise Science emphasis)

Distribution Courses

- BIOL 1010 General Biology 3.0
- Physical Science 3.0
- ZOOL 1090 Introduction to Human Anatomy and Physiology 3.0
- Humanities Distribution (any foreign language 202G course) 4.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 17 Credits

- EXSC 270G Foundations of Exercise Science 3.0
- or REC 2200 Foundations of Recreation (3.0)
- HIST 2500 Historical and Social Studies (3.0)
- or BIOL 1010 General Biology
- HLTH 1100 Personal Health and Wellness (2.0)
- PES 1097 Fitness for Life (required for the Exercise Science emphasis) 2.0

Emphasis in Exercise Science 52 Credits

Emphasis Requirements: 45 Credits

- CHEM 1110 Chemistry for the Health Sciences 5.0
- or CHEM 1210 Principles of Chemistry I (4.0)
- ZOOL 2320 Human Anatomy 3.0
- ZOOL 2325 Human Anatomy Laboratory (1.0)
- ZOOL 2420 Human Physiology (3.0)
- ZOOL 2425 Human Physiology Laboratory (1.0)
- EXSC 2500 Exercise Science for Health Promotion 3.0
- EXSC 2510 Exercise Science for Health Promotion Laboratory 1.0
- EXSC 270G Foundations of Exercise Science (3.0)
- EXSC 4700 Clinical Exercise Physiology (3.0)
- ZOOL 2320 Human Anatomy 3.0
- ZOOL 2325 Human Anatomy Laboratory (1.0)
- ZOOL 2420 Human Physiology (3.0)
- ZOOL 2425 Human Physiology Laboratory (1.0)
- EXSC 2500 Exercise Science for Health Promotion 3.0
- EXSC 2510 Exercise Science for Health Promotion Laboratory 1.0
- EXSC 270G Foundations of Exercise Science (3.0)
- EXSC 4700 Clinical Exercise Physiology (3.0)
- ZOOL 2320 Human Anatomy 3.0
- ZOOL 2325 Human Anatomy Laboratory (1.0)
- ZOOL 2420 Human Physiology (3.0)
- ZOOL 2425 Human Physiology Laboratory (1.0)
- EXSC 2500 Exercise Science for Health Promotion 3.0
- EXSC 2510 Exercise Science for Health Promotion Laboratory 1.0
- EXSC 270G Foundations of Exercise Science (3.0)
- EXSC 4700 Clinical Exercise Physiology (3.0)

Emphasis Elective Requirements: 7 Credits

- Any course 2000-level or higher 7.0

Emphasis in Outdoor Recreation Management 52 Credits

Emphasis Requirements: 52 Credits

- MGMT 3710 Entrepreneurship 3.0
- REC 1535 Fundraising 1.0
- REC 1542 Wilderness First Responder 2.0
- REC 2400 Principles of Educational Recreation 3.0
- REC 2600 Principles of Outdoor and Adventure Education 3.0
- REC 2700 Leave No Trace Trainer 1.0
- REC 3100 Recreation Program Planning 3.0
- REC 3200 Inclusive Recreation 3.0
- REC 3300 Wilderness Skills 1.0
- REC 3400 Risk Management 3.0

Emphasis Elective Requirements: 15 Credits

- Any 1000-level or higher 15.0

BS Exercise Science and Outdoor Recreation 120 Credits

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2100 Intermediate Writing—Humanities/ Social Sciences 3.0
- or ENGL 2200 Intermediate Writing—Science and Technology (3.0)
- MATH 1050 College Algebra 4.0

- Complete one of the following: 3.0
  - 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)
  - or POLS 1000 American National Government (3.0)

- Complete the following: 3.0
  - PHIL 2050 Ethics and Values
  - HLTH 1100 Personal Health and Wellness (2.0)
  - or PES 1097 Fitness for Life

Distribution Courses

- BIOL 1010 General Biology 3.0
- Physical Science 3.0
- ZOOL 1090 Introduction to Human Anatomy and Physiology 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 17 Credits

- EXSC 270G Foundations of Exercise Science 3.0
- or REC 2200 Foundations of Recreation (3.0)
- EXSC 3500 Motor Learning and Development 3.0
- or EXSC 3500 Motor Learning and Development
- EXSC 3750 Psychosocial Aspects of Human Performance 2.0
- or EXSC 3750 Psychosocial Aspects of Human Performance
- EXSC 3850 Ethical Concerns in Exercise Science 3.0
- or REC 385G Ethical Concerns in Exercise Science

Emphasis Elective Requirements: 15 Credits

- Any 1000-level or higher 15.0
Emphasis in Exercise Science 52 Credits

Emphasis Requirements: 45 Credits

- CHEM 1110 Elementary Chemistry for the Health Sciences 4.0
- or CHEM 1210 Principles of Chemistry I (4.0)
- or ZOOL 2320 Human Anatomy 3.0
- or ZOOL 2323 Human Anatomy Laboratory 1.0
- or ZOOL 2420 Human Physiology 3.0
- or ZOOL 2425 Human Physiology Laboratory 1.0
- or EXSC 2500 Sports Medicine 3.0
- or EXSC 2510 Sports Medicine Lab 1.0
- or EXSC 3270 Exercise Testing and Prescription 3.0
- or EXSC 3700 Exercise Physiology 3.0
- or EXSC 3705 Exercise Physiology Laboratory 1.0
- or EXSC 3730 Biomechanics 3.0
- or EXSC 4950 Senior Seminar 2.0
- or MATH 2040 Principles of Statistics 4.0
- or BESC 3010 Statistics for the Behavioral Sciences (4.0)

Choose 13 credits from the following:

- EXSC 4000 Exercise Physiology (3.0)
- EXSC 4100 Fitness Across the Lifespan (3.0)
- EXSC 4410 Physical Activity Promotion in the Community (3.0)
- or EXSC 4410 Promoting Physical Activity in the Community Field Experience (1.0)
- or EXSC 4500 Advanced Sports Nutrition (3.0)
- or EXSC 4600 Advanced Biomechanics (3.0)
- or EXSC 4700 Advanced Gross Motor Assessment (3.0)
- or CHEM 1220 Principles of Chemistry II (4.0)
- or PHYS 2020 College Physics II (4.0)
- or ZOOL 4400 Pathophysiology (4.0)
- or ZOOL 4747 Advanced Anatomy (4.0)
- or PSY 3410 Abnormal Psychology (3.0)

Emphasis Elective Requirements: 7 Credits

- Any course 1000-level or higher 7.0

Emphasis in Outdoor Recreation Management 52 Credits

Emphasis Requirements: 52 Credits

- MGMT 3170 Entrepreneurship 3.0
- or REC 1535 Backcountry 1.0
- or REC 1542 Wilderness Skills 1.0
- or REC 2400 Principles of Experiential Education 3.0
- or REC 2650 Principles of Outdoor and Adventure Education 3.0
- or REC 2705 Leave No Trace 1.0
- or REC 3100 Recreation Program Planning 3.0
- or REC 3200 Inclusive Recreation 3.0
- or REC 3330 Risk Management 3.0
- or REC 3500 Recreation Administration 3.0
- or REC 4201 Outdoor Leadership and Management 3.0
- or REC 4400 Park and Protected Area Management 3.0
- or REC 4800 Pre-Internship Seminar 1.0
- or REC 4818 Senior Internship (1-9) 8.0
- or REC 4950 Senior Seminar 2.0

Complete two credits from the following land-based skills courses:

- REC 1516 Ropes Course and Team Building (1.0)
- REC 1525 Mountaineering (1.0)
- REC 1527 Rock Climbing I (1.0)
- REC 1528 Indoor Rock Climbing I (1.0)
- REC 1529 Rock Climbing II (1.0)
- REC 1552 Indoor Rock Climbing II (1.0)
- REC 1555 Mountain Biking (1.0)
- REC 2010 Intermediate Rock Climbing (1.0)

Complete one credit from the following water-based courses:

- REC 1500 Canoeing I (1.0)
- REC 1501 Canoeing II (1.0)
- REC 1505 Whitewater Kayaking I (1.0)
- REC 1506 Whitewater Kayaking II (1.0)

Complete at least six credits from the following classes:

- 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)
- or REC 3700 Resource Interpretation (3.0)
- or REC 4000 Outdoor Leadership (4.0)
- or REC 410R Experiential Learning Expedition (1.0)
- or REC 4500 Visitor Behavior (3.0)
- or REC 490R Recreational Recreation (1.0)

Emphasis Elective Requirements: 1 Credit

- Any course 1000-level or higher 1.0

BS in Physical Education

Teacher Education 120 Credits

Matriculation Requirements:

- Acceptance to the Secondary Education Program, which include the following requirements: (1) PRAXIS I Pre-Professional Skills Test (PPST) scores of Reading 170 and Mathematics 173 or higher; (2) GPA of 2.75 or higher. (3) Completion of all General Education requirements and required pre-professional education courses. (4) An interview directed by the Teacher Education Selection and Retention Committee. (5) Pass criminal background check.

Complete the following with a grade of “C” or better:

- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- or HIST 1700 American Civilization (3.0)
- or HIST 1740 US Economic History (3.0)
- or POLS 1000 American Heritage (3.0)
- or POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3.0
- or PES 1097 Fitness for Life 3.0

Distribution Courses

- BIOL 1010 General Biology 3.0
- or BIOL 1610 College Biology (4.0)
- or CHEM 1010 Introduction to Chemistry 3.0
- or CHEM 3110 Elementary Chemistry for the Health Sciences (4.0)
- or ZOOL 1090 Introduction to Human Anatomy and Physiology 3.0

Fine Arts Distribution

- or MATH 1100 Human Development Life Span 3.0
- or PSY 1100 Human Development 3.0
- or COMM 1020 Public Speaking 3.0

Discipline Core Requirements: 82 Credits

- or EXSC 2500 Sports Medicine 3.0
- or EXSC 2510 Sports Medicine Lab 1.0
- or EXSC 270G Foundations of Exercise Science 3.0
- or EXSC 3500 Kinesiology 3.0
- or EXSC 3550 Motor Learning and Development 3.0
- or EXSC 3700 Exercise Physiology 3.0
- or EXSC 3705 Exercise Physiology Laboratory 1.0
- or EXSC 3750 Psychosocial Aspects of Human Performance 2.0

Minor in Outdoor Recreation 20 Credits

Matriculation Requirements:

- Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 20 Credits

- REC 2210 Foundations of Recreation 3.0
- or REC 2400 Principles of Experiential Education 3.0
- or REC 3100 Recreation Program Planning 3.0
- or REC 3400 Risk Management 3.0

Complete 2 credits from the following:

- REC 1520 Canoeing I (1.0)
- REC 1505 Whitewater Kayaking I (1.0)
- REC 1521 Indoor Rock Climbing I (1.0)
- REC 1527 Rock Climbing I (1.0)
- REC 1535 Backpacking (1.0)
- REC 4500 Visitor Behavior (3.0)

Minor in Exercise Science and Outdoor Recreation 26 Credits

Discipline Core Requirements: 26 Credits

- or PETE 2100 Skill Analysis I 3.0
- or EXSC 270G Foundations of Exercise Science 3.0
- or EXSC 2500 Sports Medicine 3.0
- or EXSC 2510 Sports Medicine Lab 1.0
- or EXSC 3270 Exercise Testing and Prescription 3.0
- or EXSC 3550 Motor Learning and Development 3.0
- or EXSC 3700 Exercise Physiology 3.0
- or EXSC 3705 Exercise Physiology Laboratory 1.0
• PETE 4250  Methods of Teaching Secondary Physical Education  3.0
• PETE 4260  Secondary Physical Education Field Experience  1.0

Choose one of the following:  2.0
• PES 3220  Teaching and Coaching Basketball (2.0)
• PES 3230  Teaching and Coaching Football (2.0)
• PES 3240  Teaching and Coaching Volleyball (2.0)
• PES 3250  Teaching and Coaching Aerobics and Cheerleading (2.0)
• PES 3260  Teaching and Coaching Baseball and Softball (2.0)

BA/BS in Integrated Studies  123 CREDITS
The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Exercise Science  18 Credits

Emphasis Requirements:  18 Credits
Exercise Science Emphasis
Complete the following:
• EXSC 270G  Foundations of Exercise Science  3.0
• EXSC 3270  Exercise Testing and Prescription  3.0
• EXSC 3500  Kinesiology  3.0
• EXSC 3700  Exercise Physiology  3.0
• EXSC 3705  Exercise Physiology Laboratory  1.0

Complete 5 credits from the following:  5.0
• Any PES 1000 level course except PES 1097, maximum of 1 credit may be applied to graduation
• Any EXSC course 2050 or higher

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- EXSC, Exercise Science
- PES, Physical Education
- PETE, Physical Education Teacher Education
- REC, Recreation
Facilities Management

Department of Construction Technologies

Department Chair: Barry Hallsted
Office: GT 601
Telephone: 801-863-8135

Program Coordinator: Eric Linfield
Office: GT 613D
Telephone: 801-863-8250

Faculty:

Associate Professor
Eric Linfield

Office Manager: Sandra Ozuna
Office: GT 613
Telephone: 801-863-7405

Advisor: Amy Ostler
Office: CS 635
Telephone: 801-863-8138

Advisory Committee: Mark Woods (chairperson), Novell, Inc.; Phil Lott, Provo School District; Bob Clark, Utah Valley University, Physical Plant; Bob Whimpney, Nature’s Sunshine; Larry Robinson, Intermountain Healthcare - Urban South Region.

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

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:

- purchasing
- budgeting and accounting
- preventative maintenance and protection of physical property
- scheduling regular maintenance of facilities
- planning and logistics

PROGRAMS
Two options are available: An Associate in Applied Science degree and a Bachelor of Science Degree in Technology Management.

Reminder: an overall grade point average of 2.0 (C) or higher is required for graduation.

AAS in Facilities Management 64 Credits

General Education Requirements: 18 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 1050 Communication 3.0
- EGDT 1600 Technical Math—Algebra (MATH 1040 required for BS in Technology Management) 3.0
- PHIL 2050 Ethics and Values 3.0
- ENVT 1200 Environmental Worker Safety 3.0
- Any approved Biology or Physical Science Distribution Course (Recommended: PHYS 1010) 3.0
- TECH 2000 Technology and Human Life 3.0

Discipline Core Requirements: 46 Credits
- ACC 2010 Financial Accounting 3.0
- BIT 1010 Building Codes 3.0
- BIT 1230 Plan Review 3.0
- CMGT 1160 Building Information Modeling 3.0
- or EGDT 1020 3D Architectural Modeling (3.0)
- CMGT 3000 Principles of Construction Scheduling 3.0
- CMGT 3020 Analysis and Design of Construction Systems 3.0
- DGM 2010 Business Computer Proficiency 3.0
- FAC 1010 Survey of Facilities Management 3.0
- FAC 281R Cooperative Work Experience (1.0) 8.0
- FAC 285R Cooperative Correlated Class (1.0) 2.0
- LEGL 3130 Real Estate Principles and Finance 3.0
- LEGL 3140 Real Estate Law 3.0
- MGMT 2200 Business Communication 3.0
- MGMT 3010 Principles of Management 3.0

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.

BS in Technology Management 125 Credits

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Facilities Management 45 Credits

Emphasis Requirements 45 credits
- BCCM 1120 Blueprint Reading 2.0
- BCCM 1170 Principles of Mechanical Electrical and Plumbing Design 2.0
- BCCM 299R Skills USA 1.0
- CMGT 3000 Principles of Construction Scheduling 3.0
- BIT 1010 Building Codes 3.0
- BIT 1240 Plumbing Codes 3.0
- BIT 1330 Mechanical Codes 3.0
- BIT 1340 Electrical Codes 3.0
- EGDT 1020 3D Architectural Modeling 3.0
- EGDT 1600 Technical Math—Algebra 3.0
- ENVT 1200 Environmental Worker Safety 3.0
- FAC 1010 Survey of Facilities Management 3.0
- FAC 281R Cooperative Work Experience (Must be repeated) (1.0) 8.0
- FAC 285R Cooperative Correlated Class (Must be repeated) (1.0) 2.0
- MGMT 2200 Business Communication 3.0

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- ACR, Air Conditioning and Refrigeration Technology
- BCCM, Building Construction and Construction Management
- BIT, Building Inspection Technology
- CAW, Cabinetry and Architectural Woodworking
- FAC, Facilities Management
- LINE, Lineman Technology
- WELD, Welding Technology
of Finance and Economics are designed to give students the background they need to make professional business decisions. Experienced faculty work with students in development of theory and learning to apply the principles of financial management, economics, statistics, and operations management critical to their professional development.

**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 international business, international finance, import/export, and securities operations. The PFP program gives graduates an opportunity to both work for themselves in a capacity as an individual planner as well as to obtain employment in other organizations as they provided 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 and also in 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 accreditation exams offered by national financial planning associations.

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### BA in Economics

**123 CREDITS**

**General Education Requirements: 37 Credits**

- **ENG 1010** Introduction to Writing (3.0)
- **ENG 2010** Intermediate Writing—Humanities/Social Sciences (3.0) or **ENG 2020** Intermediate Writing—Science and Technology (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)

**Distribution Courses:**

- **ECON 2020** Macroeconomics (fulfills Social/Behavioral Science credit) (3.0)
- **Biology** (3.0)
- **Physical Science** (3.0)
- **Additional Biology or Physical Science** (3.0)
- **Humanities Distribution (any foreign language)** (4.0, 202G class)
- **Fine Arts Distribution** (3.0)

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### Finance & Economics

**Discipline Core Requirements: 74 Credits**

**Business Foundation Courses:**

- **ACC 2010** Financial Accounting (3.0) and **ACC 2020** Managerial Accounting (3.0)
- **ACC 2030** Principles of Accounting (3.0)
- **BUS 2010** Business Computer Proficiency Exam (1.0)
- **ECON 2010** Microeconomics (3.0)
- **MATH 1100** Introduction to Calculus (4.0)
- **MGMT 2200** Business Communication (3.0)
- **MGMT 2340** Business Statistics I (3.0)

**Business Core Courses:**

- **FIN 3100** Principles of Finance (3.0)
- **INFO 3120** Principles of Information Systems—A Managerial Approach (3.0)
- **LEGL 3000** Business Law (3.0)
- **MKTG 3600** Principles of Marketing (3.0)
- **MGMT 3100** Principles of Management (3.0)
- **MGMT 3450** Operations Management (3.0)
- **MGMT 493R** Entrepreneurship Lecture Series (1.0) or **MGMT 495R** Executive Lecture Series (1.0)

**Economics Core Requirements:**

- **ECON 3010** Intermediate Microeconomics (3.0)
- **ECON 3030** Intermediate Macroeconomics (3.0)
- **ECON 3300** History of Economic Thought (3.0)
- **ECON 4500** US Economic Development and History (3.0)
- **ECON 4960** Senior Seminar Current Economic Issues (3.0)

**Economics Elective Requirements:**

- Choose 15 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:**

12 Credits

**Complete 12 credits of any foreign language course 1010, 1020, 2010 sequence**

**Graduation Requirements:**

1. Completion of a minimum of 123 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 and 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. Residence 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.

**NOTE:** Students will be limited to 15 hours of upper-division credit until advanced standing status is completed.

**Footnotes:**

- 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.

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### BS in Economics

**120 CREDITS**

**General Education Requirements: 36 Credits**

- **ENG 1010** Introduction to Writing (3.0)
- **ENG 2010** Intermediate Writing—Humanities/Social Sciences (3.0) or **ENG 2020** Intermediate Writing—Science and Technology (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)

**Distribution Courses:**

- **ECON 2020** Macroeconomics (fulfills Social/Behavioral Science credit) (3.0)
- **Biology** (3.0)
- **Physical Science** (3.0)
- **Additional Biology or Physical Science** (3.0)
- **Humanities Distribution (any foreign language)** (4.0, 202G class)
- **Fine Arts Distribution** (3.0)
**Finance & Economics**

- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0

**Discipline Core Requirements: 74 Credits**

**Business Foundation Courses:**
- ACC 2010 Financial Accounting (3.0) and ACC 2200 Managerial Accounting (3.0) or ACC 2030 Principles of Accounting (6.0)
- **Business Computer Proficiency Exam**
- or DGM 2010 Business Computer Proficiency
- or MGMT 2200 Business Communication 3.0
- MGMT 2340 Business Statistics I 3.0

**Business Core Courses:**
- **FIN 3120 Principles of Information Systems—A Managerial Approach**
- **LEGL 3000 Business Law** 3.0
- **MKTG 3420** Operations Management 3.0
- **MGMT 495R Entrepreneurship Lecture Series (1.0)**
- or MGMT 495R Executive Lecture Series 1.0

**Economics Core Requirements:**
- ECON 3910 Intermediate Microeconomics 3.0
- ECON 3340 Managerial Statistics 3.0
- ECON 3530 History of Economic Thought 3.0
- ECON 4500 US Economic Development and History 3.0
- **ECON 4960 Senior Seminar Current Economic Issues** 3.0

**Economics Elective Requirements:**
- Choose 15 credits from any 3000 or 4000 level 15.0
- ACC, ECON, or FIN course not already taken in consultation with an appropriate faculty or an advisor.

**Elective Requirements: 10 Credits**
- Complete 10 credits of any courses 1000 or higher. 10.0

**Graduation Requirements:**
- 1.0
- **ACC, ECON, or FIN course not already taken in consultation with an appropriate faculty or an advisor.**

**Footnotes:**
- 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 60 percent or higher.

**BA in Finance 123 Credits**

**General Education Requirements: 37 Credits**
- **ENGL 1010** Introduction to Writing 3.0
- **ENGL 1020** Intermediate Writing—Humanities/Social Sciences or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
- **MATH 1050** College Algebra 4.0
- Complete one of the following: 3.0
  - HIST 2700 US History to 1877 (3.0) and HIST 2710 US History since 1873 (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)**
  - **PHIL 2050 Ethics and Values** 3.0
  - **HLLTH 1100 Personal Health and Wellness (2.0)**
  - **PES 1097 Fitness for Life** 2.0

**BS in Finance 123 Credits**

**General Education Requirements: 36 Credits**
- **ENGL 1010** Introduction to Writing 3.0
- **ENGL 2020 Intermediate Writing—Science and Technology (3.0)**
- **MATH 1050** College Algebra 4.0
- Complete one of the following: 3.0
  - **HIST 2700 US History to 1877 (3.0)**
  - **HIST 2710 US History since 1873 (3.0)**
  - HIST 1700 American Civilization (3.0)
  - HIST 1740 US Economic History (3.0)
  - **POLS 1000 American Heritage (3.0)**

**BS in Personal Financial Planning 121 Credits**

**General Education Requirements: 36 Credits**
- **ENGL 1010** Introduction to Writing 3.0
- **ENGL 2020 Intermediate Writing—Science and Technology (3.0)**
- or **ENGL 2020 Intermediate Writing—Science and Technology (3.0)**
- **MATH 1050** College Algebra 4.0

**Footnotes:**
- 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 60 percent or higher.
Complete one of the following: 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 1000 American Heritage (3.0)
• POLS 1100 American National Government (3.0)
Complete the following: 6.0
• PHIL 2050 Ethics and Values 3.0
• HLTH 1100 Personal Health and Wellness (2.0)
• PES 1097 Fitness for Life 2.0
Distribution Courses 3.0
• ECON 2020 Macroeconomics (fulfills Social/Behavioral Science credit)
• Biology 3.0
• Physical Science 3.0
• Additional Biology or Physical Science 3.0
• Humanities Distribution 3.0
• Fine Arts Distribution 3.0

Discipline Core Requirements: 85 Credits
Business Foundation Courses: 6.0
• ACC 2010 Financial Accounting (3.0) and ACC 2020 Managerial Accounting (3.0) or ACC 2030 Principles of Accounting 3.0
• Business Computer Proficiency Exam 3.0
• DGM 2010 Business Computer Proficiency * 3.0
• ECON 2010 Microeconomics 3.0
• MATH 1100 Introduction to Calculus 4.0
• MGMT 2200 Business Communication 3.0
• MGMT 2340 Business Statistics I 3.0
Business Core Courses: 30.0
• LEGL 3000 Business Law 3.0
• MGMT 3000 Organizational Behavior 3.0
• ECON 3100 Principles of Finance 3.0
• FIN 4290 Technological Applications in Personal Financial Planning 3.0
• MGMT 3450 Operations Management 3.0
• MKTG 3600 Principles of Marketing 3.0
• MGMT 4800 Strategic Management 3.0
and MGMT 4830 Strategic Management Capstone Simulation 3.0
• MGMT 493R Entrepreneurship Lecture Series (1.0)
or MGMT 495R Executive Lecture Series 1.0
Personal Financial Planning Core Requirements: 3.0
• ACC 3400 Individual Income Tax 3.0
• BESC 3800 Interviewing Skills 4.0
• FIN 3080 Introduction to the FPP Profession 3.0
• FIN 3200 Financial Counseling 3.0
• FIN 3210 Retirement Planning 3.0
• FIN 3220 Risk Management and Insurance 3.0
• FIN 3400 Investment Management 3.0
• FIN 4210 Estate Planning Fundamentals 3.0
• FIN 4270 Wealth Management Seminar 3.0
• FIN 4800 Personal Financial Planning Capstone 3.0
• FIN 481R Personal Financial Planning Internship (for a maximum of 6 credits) (3.0)
• LEGL 4150 Wills Trusts and Probate 3.0

Graduation Requirements:
1. Completion of a minimum of 121 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.

NOTE: Students will be limited to 15 hours of upper-division credit until advanced standing status is completed.

Footnotes:
* 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.

Minor in Finance: 18 Credits
Discipline Core Requirements: 9 Credits
• ECON 2010 Microeconomics 3.0
• MGMT 2340 Business Statistics I 3.0
• FIN 3100 Principles of Finance 3.0
Elective Requirements: 9 Credits
Choose nine hours from the following courses 9.0
• 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)

BA/BS in Integrated Studies: 123 Credits
The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Economics: 18 Credits
Discipline Core Requirements: 12 Credits
• ECON 2010 Microeconomics 3.0
• ECON 2020 Macroeconomics 3.0
• ECON 3020 Managerial Economics 3.0
• ECON 3830 History of Economic Thought 3.0
Elective Requirements: 6 Credits
Choose six hours from the following courses 6.0
• 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)

BA/BS in Integrated Studies: 123 Credits
The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Finance: 18 Credits
Discipline Core Requirements: 9 Credits
• ECON 2010 Microeconomics 3.0
• MGMT 2340 Business Statistics I 3.0
• FIN 3100 Principles of Finance 3.0
Elective Requirements: 9 Credits
Choose nine hours from the following courses 9.0
• 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)
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. Lower division courses in U.S. History fill general education requirements for American Institutions; other lower division courses meet the social science distribution requirement or global/intercultural requirement. Upper division courses may be applied toward the BA in History, BS in History Education, an emphasis in the four-year Integrated Studies degree, or several interdisciplinary programs, such as American Indian Studies, Peace and Justice Studies, and American Studies.

### A.A./A.S. Pre Major in History and Political Science 62 Credits

**General Education Requirements:** 35 Credits

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<th>Course</th>
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<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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<tr>
<td>or ENGL 2020 Intermediate Writing—Science and Technology (3.0)</td>
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**Mathematics**

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<tbody>
<tr>
<td>MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1040 Introduction to Statistics (recommended for Social Science majors)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors)</td>
<td>4.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3.0</strong></td>
</tr>
</tbody>
</table>

**Distribution Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2700 US History to 1877 (3.0) and HIST 2710 US History since 1877 (3.0)</td>
<td>6.0</td>
</tr>
<tr>
<td>HIST 1700 American Civilization (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 1740 US Economic History (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 1000 American Heritage (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS 1100 American National Government (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3.0</strong></td>
</tr>
</tbody>
</table>

**Elective Requirements:** 11 Credits

- FOR AS DEGREE: Complete any course numbered 1000 or higher
- FOR AA DEGREE: One Foreign Language

**Graduation Requirements**

- Completion of a minimum of 62 semester credits.
- Overall grade-point average of 2.0 (C) or above.
- Residency hours — minimum of 20 credit hours through course attendance at UVU.
- Completion of GE and specified departmental requirements.
- For the AA degree, completion of 8 credit hours of course work from each Area of Study.

### BA in History 120 Credits

**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>3.0</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing—Humanities/Social Sciences</td>
<td>3.0</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing—Science and Technology (3.0)</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3.0</strong></td>
</tr>
</tbody>
</table>

**Mathematics**

<table>
<thead>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030 Quantitative Reasoning (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1040 Introduction to Statistics (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1050 College Algebra (4.0)</td>
<td>4.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3.0</strong></td>
</tr>
</tbody>
</table>

**Distribution Courses**

<table>
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<tr>
<td>POLS 1100 American National Government (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3.0</strong></td>
</tr>
</tbody>
</table>

**Elective Requirements:** 11 Credits

- FOR AS DEGREE: Complete any course numbered 1000 or higher
- FOR AA DEGREE: One Foreign Language

**Graduation Requirements**

- Completion of a minimum of 62 semester credits.
- Overall grade-point average of 2.0 (C) or above.
- Residency hours — minimum of 20 credit hours through course attendance at UVU.
- Completion of GE and specified departmental requirements.
- For the AA degree, completion of 8 credit hours of course work from each Area of Study.

### History Department

**Department Chair:** Kathren Brown  
**Department Office:** LA 209d  
**Telephone:** 801-863-7435  
**Fax:** 801-863-7013

**Faculty:**  
- **Professor**  
  - William W. Cobb, Jr.  
  - JaNae Brown Haas  
  - Keith Snedegar  
  - Associate Professor  
  - Lyn Ellen Bennett  
  - Kathren Brown  
  - David R. Wilson  
  - Assistant Professor  
  - Celine Carayon  
  - Lecturer  
  - Roger Blomquist

**College of Humanities and Social Sciences**  
**Dean:** David P. Yells  
**Office:** LA 209d  
**Telephone:** 801-863-7435

**Program Goals:**  
- Provide students with a broad range of courses that increase global awareness, engagement, and informed citizenship.  
- Develop critical thinking, writing, and oral expression.  
- Investigate the human experience by investigating diverse perspectives of the past and present.  
- Prepare students for further study in graduate and professional programs, careers in public service or private enterprise.  
- Foster independent thinking, engage students with historical conversations and debates, and improve students’ ability to communicate in a variety of media.  
- Provide programs that will have a valuable set of skills for future study in graduate and professional programs, and careers in public service or private enterprise.
or POLS 2100 Introduction to International Relations (3.0)

Discipline Core Requirements: 74 Credits

Complete the following:

• GEOG 1300 Survey of World Geography (3.0)
• HIST 1740 US Economic History (3.0)
• HIST 1550 World History to 1500 (3.0)
• HIST 151G World History from 1500 to the Present (3.0)
• HIST 2700 US History to 1877 (3.0)
• HIST 2710 US History since 1877 (3.0)
• HIST 3010 The Nature of History (3.0)
• HIST 3260 History of Utah (3.0)
• HIST 4250 Teaching History in the Secondary Classroom (3.0)

Professional Education Courses

• EDSC 3000 Educational Psychology (3.0)
• EDSC 3050 Foundations of American Education (2.0)
• EDSC 3250 Instructional Media (2.0)
• EDSC 4200 Classroom Management I (2.0)
• EDSC 4250 Classroom Management II (2.0)
• EDSC 4440 Content Area Reading and Writing (3.0)
• EDSC 444G Multicultural Instruction ESL (2.0)
• EDSC 4550 Secondary Curriculum Instruction and Assessment (3.0)
• EDSC 4850 Student Teaching--Secondary (4.0) (10.0)
• EDSP 3400 Exceptional Students (2.0)

Choose one course from each of the following five 15.0

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 3260 History 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 3800 Environmental History of the United States (3.0)
• HIST 381G Pre-Columbian America (3.0)
• HIST 383G Indians of the Great Plains (3.0)
• HIST 385G The Struggle for Self-determination--American Indians 1891-present (3.0)
• HIST 3870 Constitutional History to Plessy 1896 (3.0)
• HIST 3880 Constitutional History since Plessy 1896 (3.0)
• HIST 4600 Contemporary American Indian Political and Social Issues (3.0)
• HIST 462G History of the American West (3.0)
• HIST 4740 American Revolution (3.0)
• HIST 4750 Civil War/Reconstruction (3.0)

Latin America*

• HIST 3040 Colonial Latin America (3.0)
• HIST 3050 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 3220 Modern Britain (3.0)
• HIST 386G The History of Modern Russia--1864 to Present (3.0)

Comparative/Topical*

• HIST 4330 Machines in the Making of History (3.0)
• HIST 345G The History of World War II (3.0)
• HIST 3800 Environmental History of the United States (3.0)
• HIST 4100 Jewish History (3.0)
• HIST 4130 Anti-Semitism and the Holocaust (3.0)
• HIST 420R Issues and Topics in Global History (3.0)
• HIST 4320 History of Scientific Thought (3.0)
• HIST 435R Issues and Topics in the History of Science (3.0)
• HIST 471R Special Issues and Topics in American History (3.0)

Africa/Africa*

• HIST 3030 Introduction to African History (3.0)
• HIST 3430 Middle East History--1914-1979 (3.0)
• HIST 3530 History of Vietnam (3.0)
• HIST 3540 History of South Africa (3.0)
• HIST 3610 The Modern History of East Asia (3.0)
• HIST 4430 History of Iran--1900 to Present (3.0)

Elective Requirements: 12 Credits

• Any courses numbered 1000 or higher.

Graduation Requirements:

1. Completion of a minimum of 122 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. Completion of GE and specified departmental requirements.
5. Students completing a bachelor degree following the 2008 or later catalog must complete one course that meets the Global Interdisciplinary Requirement, indicated by a course number ending in G. For a complete listing, see page 25.

Minor in History

21 Credits

Matriculation Requirements:

1. Successful completion of one history course at UVU.
2. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 12 Credits

• HIST 1500 World History to 1500 (3.0)
• HIST 151G World History from 1500 to the Present (3.0)
• HIST 2700 US History to 1877 (3.0)
• HIST 2710 US History since 1877 (3.0)

Elective Requirements: 9 Credits

• Any three upper division history courses except
• HIST 4880 and HIST 4990.

Graduation Requirements:

1. Complete all history courses with a grade of ‘C-‘ or better.

BA/BS in Integrated Studies

123 Credits

The following integrated studies emphasis is available (see the integrated studies section of this catalog for complete degree requirement listings.)

Emphasis in History

18 Credits

Discipline Core Requirements: 18 Credits

History Emphasis

Complete one of the following:

• HIST 3010 The Nature of History (3.0)
• HIST 3260 History of Utah (3.0)

or See Advisor

Complete an additional 15 credits from any HIST 150 or higher (see advisor)

BA/BS in Integrated Studies

123 Credits

The following integrated studies emphasis is available (see the integrated studies section of this catalog for complete degree requirement listings.)

Emphasis in Social Sciences

18 Credits

Discipline Core Requirements: 18 Credits

Complete 3 credits from the following courses:

• ARCH 1100 Introduction to Archaeology (3.0)
• ECON 1010 Economics as a Social Science (3.0)
• HIST 1740 US Economic History (3.0)
• GEOG 1300 Survey of World Geography (3.0)

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History

• GEOG 2100 Geography of the United States (3.0)
• GEOG 3010 Economic Geography (3.0)
• GEOG 3430 Political Geography (3.0)
• GEOG 3630 Introduction to Geographic Information Systems (4.0)
• GEOG 3800 Environmental History of the United States (3.0)

Complete 3 credits from the following courses: 3.0
• POLS 1000 American Heritage (3.0)
• POLS 1010 Introduction to Political Science (3.0)
• POLS 1020 Political Ideologies (3.0)
• POLS 1100 American National Government (3.0)
• POLS 1440 Introduction to Middle East Politics (3.0)
• POLS 2200 Introduction to Comparative Politics (3.0)
• POLS 2100 Introduction to International Relations (3.0)
• POLS 1800 Our Global Community (3.0)
• POLS 2120 Political Parties (3.0)
• POLS 230G Introduction to Political Theory (3.0)
• POLS 3000 Political Analysis (3.0)
• POLS 3030 State and Local Government (3.0)
• POLS 3100 Survey of International Terrorism (3.0)
• POLS 3150 US Presidency (3.0)
• POLS 3200 US Congress (3.0)
• POLS 3300 International Relations of the Middle East (3.0)
• POLS 356G Comparative Politics of Central Asia (3.0)
• POLS 359G American Indian Law and Tribal Government (3.0)
• POLS 3600 International Relations of East Asia (3.0)
• POLS 480R Internship (2.0)

Complete at least 3 credits from the following courses: 3.0
• HIST 1500 World History to 1500 (3.0)
• HIST 151G World History from 1500 to the Present (3.0)
• HIST 1700 American Civilization (3.0)
• HIST 2700 US History to 1877 (3.0)
• HIST 2710 US History since 1877 (3.0)

Complete an additional 9 credits from any GEOG, HIST, or POLS course 3000 or higher (see advisor). 9.0

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- ARCH, Archaeology
- HIST, History
- POLS, Political Science
- SOSC, Social Science
Honors Program

Faculty Director: Michael M. Shaw  
Office: LA 121p  
Telephone: 801-673-4382  
Fax: 801-863-6562  
E-mail: shawmi@uvu.edu

Program Coordinator: Tiffany Nez  
Office: LC 204a  
Telephone: 801-863-6223  
E-mail: tiffany.nez@uvu.edu

Program Coordinator: Allen Hill  
Office: LC 202a  
Telephone: 801-863-6841  
E-mail: allen.hill@uvu.edu

Faculty: Selected from among departmental faculty to meet program/course needs

AVPAA, Academic Programs  
Kathie Debenham  
Office: BA 216a  
Telephone: 801-863-7129  
E-mail: Kathie.Debenham@uvu.edu

Main Office: LC 204  
Telephone: (801) 863-6262  
Fax: (801) 863-6562  
Web: www.uvu.edu/honors

Mailing Address:  
Utah Valley University  
Honors Program MS 274  
800 W. University Parkway  
Orem, Utah 84058-5999

MISSION STATEMENT
The Honors Program at Utah Valley University provides opportunities for students to realize academic, professional, civic, and human potential. Open to highly motivated students pursuing any associate or baccalaureate degree, Honors offers small courses with outstanding faculty featuring innovative classroom approaches, experiential learning, cultural events, and unique social gatherings.

PROGRAM BENEFITS
- Challenging and engaging coursework with dedicated Honors professors
- Residential and academic scholarship opportunities for incoming students
- Priority course registration status (allows all Honors students to register as seniors when registration opens)
- Small class sizes
- Personalized mentoring by Honors faculty and staff
- Frequent cultural and academic events offered through Honors Colloquium
- Access to the Honors Study Commons and Computer Lab
- Unique opportunities for undergraduate research
- An exciting collegiate community

APPLICATION PROCESS
Application forms are available in the Honors Suite (LC 204). Dr. Michael M. Shaw’s office (LA 121p), or can be downloaded from the Web at www.uvu.edu/honors. Please complete the application form and submit it to Allen Hill, Program Coordinator, allen.hill@uvu.edu LC 202a along with: high school transcripts, college transcripts (if applicable), and a one- to two-page essay in response to section C (one of the admission questions listed on the form).

HONORS HOUSING
To apply for the Honors Housing, an additional three-page essay in response to section D (the housing essay question) is required. Only students admitted to Honors are eligible to apply for Honors Housing.

PROGRAM REQUIREMENTS
Entering freshmen complete a total of 21 lower-division Honors credits in their first two years of study. All students in the UVU Honors Program are required to take at least one Honors course per semester. Ancient Legacies and Modern Legacies, small interdisciplinary courses with top faculty that focus on great works from world history, must be completed in the first two semesters in the program. Depending on degree program, students then complete between 12 and 18 upper-division Honors credits, including a 2-semester Honors Thesis or Project. Students admitted to the program who have earned more than 60 credits should meet with the Faculty Director to discuss Junior entry requirements. All Honors students are required to maintain a cumulative GPA of at least 3.40.

LOWER-DIVISION HONORS (21 credits)
- Both Ancient and Modern Legacies (6 credits)
- Honors Ethics and Values (3 credits)
- A Science/Quantitative Honors General Education Course (3 credits)
- Two Additional Honors General Education Courses (6 credits)
- Three semesters of 1 credit Honors Colloquium Course (3 credits)

UPPER-DIVISION HONORS (12-18 credits)
- Completion of Lower Division Honors
- EITHER a minimum of 12 upper-division credits (3000 or higher) of Honors coursework in their major, including a 6 credit, 2-semester Honors Thesis or Project
- OR a minimum of 18 credits in an interdisciplinary Honors Minor, including a 6 credit, 2-semester Honors Thesis or Project

HONORS CURRICULUM
Honors classes are indicated in one of two ways. First, an Honors section can end with the letter “H” in the fourth position of the course number. For example, the Honors section of English 1010 is ENGL 101H. Second, Honors classes that begin with the HONR prefix are run as independent and cross-listed courses. Courses change each semester based on student needs and departmental offerings.

Sample Honors General Education Courses
- BIOL 101H: General Biology
- ENGL 101H: Introduction to Writing
- ENGL 201H: Intermediate Writing
- ENGL 202H: Intermediate Writing
- ENGL 225H: Creative/Imaginative Writing
- ENGL 230H: Shakespeare
- GEO 101H: Introduction to Geology
- GEOG 130H: Survey of World Geography
- HIST 170H: American Civilization
- HIST 270H: US History to 1877
- HIST 271H: US History since 1877
- HONR 100A: Fall Honors Colloquium
- HONR 100B: Spring Honors Colloquium
- HONR 2000: Ancient Legacies
- HONR 2100: Modern Legacies
- HUM 101H: Humanities Through the Arts
- HUM 201H: Humanities Traditions I
- HUM 202H: Humanities Traditions II
- MATH 121H: Calculus I
- MATH 122H: Calculus II
- MATH 221H: Calculus III
- PHIL 100H: Introduction to Philosophy
- PHIL 205H: Ethics and Values
- PSY 101H: Introduction to Psychology
- SOC 101H: Introduction to Sociology
- ZOOL 232H: Human Anatomy
- ZOOL 242H: Human Physiology

The Honors Program runs numerous seminars each semester as HONR 300R: Honors Interdisciplinary Seminar. Previous courses have included Cross-Cultural Psychology, International Human Rights, History of Scientific Thought, and Plato. Additional program information and application forms are available at www.uvu.edu/honors.

GRADUATE AND PROFESSIONAL SCHOOL PREPARATION
Honors students 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
Honors Program

School and employment applications are enhanced by the numerous research, internship, field, and experiential learning opportunities provided by the Honors Program.

HONORS COLLOQUIUM

Unique in Utah, 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.

PERSONALIZED MENTORING AND ADVISING

A committed Faculty Director and dedicated Honors Program Coordinators meet individually with students to plan schedules that integrate Honors course work, as well as discuss plans for majors, internships, and Honors theses and projects. In addition, students work closely with an Honors Faculty Advisor on their Senior Research Project.

Please see Course Descriptions section of the catalog for detailed course information. This program manages the following course prefixes:

- HONR, Honors
Hospitality Management

Department of Management

Department Chair: David McArthur
Office: WB 243
Telephone: 801-863-7144
E-mail: David.McArthur@uvu.edu

Faculty:

Professor
Douglas G. Miller
Associate Professor
Yang Huo
Lecturer/Program Coordinator:
D. Craig Huish

Woodbury School of Business Advisement Center:
Office: WB 257
Telephone: 801-863-8032

Woodbury School of Business
Dean: Norman S. Wright
Office: WB 128b
Telephone: 801-863-8260
E-mail: Norman.Wright@uvu.edu

CAREER OPPORTUNITIES
The Hospitality Management program offers a Bachelor of Science in Hospitality Management with a track in Hotel/Restaurant Management for students interested in management positions in the hospitality industry. The demand for management staff in this industry is high, particularly for those with specialized hospitality management skills.

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.

The Hospitality Management program also offers a Bachelor of Science in Hospitality Management with a track in Food and Beverage Management for students interested in food production management. This track is ideal for those training to be executive chefs, restaurant production managers, institutional food service or restaurant managers. The demand for management staff in the restaurant industry is high, particularly for those with culinary skills. The students will be required to have a minimum of 15 credit hours in Culinary Arts courses to complete this track.

* See Culinary Arts Institute section of this catalog for program.

PROGRAMS
Three options are available: Associate in Applied Science Degree; Associate in Science Degree; and Bachelor of Science Degree in Hospitality Management.

AAS in Hospitality Management 65 CREDITS

ENGLISH
• ENGL 1010 Introduction to Writing 3.0
• ENGL 2100 Intermediate Writing—Humanities/ Social Sciences

MATHEMATICS
• MAT 1010 Intermediate Algebra 4.0
or Any approved Mathematics Course

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
• Ethics and Values (PHIL 2050 recommended) 3.0
or Any approved Humanities, Fine Arts, or Foreign Language Distribution Course

SOCIAL BEHAVIORAL SCIENCE
• Any approved Behavioral Science, Social, or Political Science Distribution Course

BIOLOGY OR PHYSICAL SCIENCE
• Any approved Biology or Physical Science Distribution Course

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
• Any approved Physical Education, Health, Safety, or Environment Course

Graduation Requirements: 60 CREDITS

General Education Requirements: 36 CREDITS
• ENGL 1010 Introduction to Writing 3.0
• ENGL 2100 Intermediate Writing—Humanities/ Social Sciences
or ENGL 2200 Intermediate Writing—Science and Technology (3.0)

Complete one of the following:
• MATH 1050 College Algebra 4.0
or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

Distribution Courses
• Biology 3.0
• Physical Science 3.0
• Additional Biology or Physical Science 3.0
• Humanities Distribution (COMM 1100 recommended) 3.0
• Fine Arts Distribution 3.0
• ECON 2200 Macroeconomics (fulfills Social/ Behavioral Science requirement) 3.0

Discipline Core Requirements: 18 CREDITS
• ACC 2010 Financial Accounting 3.0
• HM 1010 Introduction to Hospitality Industry 3.0
• HM 1130 Hotel Operations I 3.0
• HM 1150 Food and Beverage Management 3.0
• Business Computer Proficiency Exam *

or DGM 2010 Business Computer Proficiency 3.0
• MGMT 2200 Business Communication 3.0
• MGMT 2390 Effective Business Presentations 3.0

Elective Requirements: 6 CREDITS
Complete six hours of elective credits from HM courses 6.0

Graduation Requirements:
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade below 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 10 credits must be in Woodbury School of Business
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Footnotes:
* 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.

BS in Business Management with an Emphasis in Hospitality Management 124 CREDITS

General Education Requirements: 36 CREDITS
• ENGL 1010 Introduction to Writing 3.0
• ENGL 2200 Intermediate Writing—Humanities/ Social Sciences
or ENGL 2200 Intermediate Writing—Science and Technology (3.0)
• MATH 1050 College Algebra 4.0
or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

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 3.0
• 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 (COMM 1100 recommended) 3.0
• Fine Arts Distribution 3.0
• ECON 2200 Macroeconomics (fulfills Social/ Behavioral Science requirement) 3.0

Discipline Core Requirements: 18 CREDITS
• ACC 2010 Financial Accounting 3.0
• HM 1010 Introduction to Hospitality Industry 3.0
• HM 1130 Hotel Operations I 3.0
• HM 1150 Food and Beverage Management 3.0
• Business Computer Proficiency Exam *

or DGM 2010 Business Computer Proficiency 3.0
• MGMT 2200 Business Communication 3.0
• MGMT 2390 Effective Business Presentations 3.0

Elective Requirements: 6 CREDITS
Complete six hours of elective credits from HM courses 6.0

Graduation Requirements:
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade below 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 10 credits must be in Woodbury School of Business
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Footnotes:
* 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.
Hospitality Management

• ECON 2020 Macroeconomics* (fulfills Social/ Behavioral Science credit) 3.0
• Biology 3.0
• Physical Science 3.0
• Additional Biology or Physical Science 3.0
• Humanities Distribution 3.0
• Fine Arts Distribution 3.0

Discipline Core Requirements: 50 Credits

Business Foundation Courses:
• ACC 2010 Financial Accounting 3.0
• ACC 2020 Managerial Accounting 3.0
• Business Computer Proficiency Exam ** 3.0
  or DGM 2100 Business Computer Proficiency 3.0
• MATH 1100 Introduction to Calculus 4.0
• MGMT 2200 Business Communication * 3.0
  or ECON 2020 Microeconomics 3.0
• MGMT 2340 Business Statistics I 3.0
• MGMT 2390 Effective Business Presentations 3.0

Business Core Courses:
• INFO 3120 Principles of Information Systems--A Managerial Approach 3.0
• LEGL 3000 Business Law 3.0
• MGMT 3450 Principles of Management 3.0
• FIN 3100 Principles of Finance* 3.0
• MGMT 3450 Operations Management* 3.0
• MKTG 3650 Principles of Marketing 3.0
• MGMT 3890 Career Preparation 3.0
• MGMT 4800 Strategic Management* 3.0
• MGMT 4830 Strategic Management Capstone 1.0
• MGMT 493R Entrepreneurship Lecture Series (1.0)
  or MGMT 495R Executive Lecture Series 1.0

Emphasis Requirements: 28 Credits

• MGMT 3300 Survey of International Business 3.0
• MGMT 3200 Global Tourism 3.0
• HM 3200 Hospitality Managerial Accounting 4.0
• HM 3300 Hotel Operations II 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
• HM 482R Internship (2.0)
• ACC 2010 Financial Accounting 3.0
• LEGL 3100 Hospitality Law 3.0
• MGMT 2200 Business Communications 3.0
• MGMT 2240 Foundations of Business Statistics 3.0
• MGMT 2250 Job Application and Advancement Skills 3.0
• MGMT 3890 Career Preparation 3.0
• MGMT 3240 Effective Business Presentations 3.0
• MGMT 3800 Organizational Behavior 3.0
• MGMT 4220 Management Communication 3.0

Complete one of the following two groups: 15.0

Foreign Language Group: Complete the following levels of the same language
  • 1010 Beginning 3.0
  • 2010 Intermediate 3.0
  • 4010 Advanced 3.0
  • Non-Business Elective for 3 credits

Additional GE Electives Group
  • 1010 Beginning I (foreign language) 3.0
  • MGMT 2340 Business Statistics I 3.0
  • Non-Business Elective for 8 credits.

Elective Requirements: 13 Credits

Select 10 credits of General Education courses 10.0

Graduation Requirements:
1. Completion of a minimum of 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 Woodbury School of Hospitality Management 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.

NOTE: Students will be limited to 15 hours of upper-division credit until MATRICULATION is completed.

Footnotes:
** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher or complete the DGM 2100 course with a score of 80 percent or higher.
* Students with an asterisk (*) cannot be taken until the business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.

BS in Hospitality Management 120 Credits

General Education Requirements: 36 Credits

• ENGL 1010 Introduction to Writing 3.0
• ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
  or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
• MATH 1050 College Algebra 4.0

Complete one of the following: 3.0

• POLS 1000 American Heritage (3.0)
• 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 1100 American Government (3.0)

Complete the following: 3.0

• 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
• ECON 2020 Macroeconomics 3.0

Discipline Core Requirements: 71 Credits

• HM 1010 Introduction to Hospitality Industry 3.0
• HM 1130 Hotel Operations I 3.0
• HM 1180 Food and Beverage Management 3.0
• HM 3020 Hospitality Managerial Accounting 4.0
• HM 3150 Hospitality Finance 3.0
• HM 3390 Hotel Operations II 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
• HM 482R Internship (2.0)
• ACC 2010 Financial Accounting 3.0
• LEGL 3100 Hospitality Law 3.0
• MGMT 2200 Business Communications 3.0
• MGMT 2240 Foundations of Business Statistics 3.0
• MGMT 2250 Job Application and Advancement Skills 3.0
• MGMT 3890 Career Preparation 3.0
• MGMT 2340 Effective Business Presentations 3.0
• MGMT 3800 Organizational Behavior 3.0
• MGMT 4220 Management Communication 3.0

Complete one of the following two groups: 15.0

Foreign Language Group: Complete the following levels of the same language
  • 1010 Beginning 3.0
  • 2010 Intermediate 3.0
  • 4010 Advanced 3.0
  • Non-Business Elective for 3 credits

Additional GE Electives Group
  • 1010 Beginning I (foreign language) 3.0
  • MGMT 2340 Business Statistics I 3.0
  • Non-Business Elective for 8 credits.

Elective Requirements: 13 Credits

Complete one of the following two groups: 13.0

Hotel and Restaurant Management Track:
• HM 1110 Food Production Principles (3.0)
• Complete six hours of electives from ACC, ECON, FIN, HM, LEGL, MGMT, or MKTG courses 3000 level or higher
• Complete four credits of general education courses

Food and Beverage Track:
• CA 1120 Cooking Skills Development (4.5)
• CA 1170 Non-Business Elective for 8 credits.
  (4.5)
• CA 481R Cooperative Work Experience (2.0)

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 Hospitality Management 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. At least 12 of the credit hours must be in Hospitality Management courses.

BA in International Studies 123 Credits

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for detailed course information. This department manages the following course prefixes:

- HM, Hospitality Management
- MGMT, Business Management

Note: A minimum of 2.5 GPA in all Woodbury School of Business courses, and no grade lower than a C- required for graduation.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
Department of Philosophy and Humanities

Department Chair: Michael Minch
Office: LA 121h
Telephone: 801-863-7482

Director of Humanities: Michaela Gieskenkirchen Sawyer
Office: LA 121w
Telephone: 801-863-6304

Faculty:
Professor
Scott Abbott
Associate Professor
Nancy Rushforth
Michaela Gieskenkirchen Sawyer
Assistant Professor
Samuel Liang
Leslie Simon
Artist/Post in Residence
Alex Caldiero

College of Humanities and Social Sciences
Dean: David P. Yells
Office: LA 209d
Telephone: 801-863-7435

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, visual arts, literature, architecture, performance art, music, religious studies, and philosophy to see how these 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.

These courses may be used to fulfill humanities requirements for Associate in Science, Associate in Arts, and Associate in Applied Science degrees. In addition to the requirements for the Humanities GE Distribution, students may fulfill the Optional Requirements portion of the AA/AS degrees with a Humanities emphasis by completing 28 additional Humanities credits. A minor in Humanities is offered, as well as an Emphasis in Integrated Studies. A bachelor degree is obtainable through the Integrated Studies program.

AA Pre Major in Humanities 62 Credits
General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0

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 3.0
- 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: 19 Credits
Complete one of the following:
- 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)

Complete one of the following:
- 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)

Complete one of the following:
- HUM 2020 World History Through the Arts II (3.0)
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)

Complete 6 credits from the following:
- HUM 2100 Adventures of Ideas Through 1500 (3.0)
or HUM 210H Adventures of Ideas Through 1500 (3.0)
or HUM 2200 Adventures of Ideas After 1500 (3.0)
or 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, ENGL, MUSC, PHIL, THEA (1000 level or higher)

Elective Requirements: 8 Credits
- Same Foreign Language 8.0

Graduation Requirements:
1. Completion of a minimum of 62 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. For the AA degree, completion of 8 credit hours of course work from one language.

AS Pre Major in Humanities 62 Credits
General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0

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 3.0
- 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: 21 Credits
Complete one of the following:
- 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)

Complete one of the following:
- 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)
or HUM 203G Art Form Focus I (3.0)

Complete one of the following:
- HUM 2020 World History Through the Arts II (3.0)
or HUM 202G World History Through the Arts II (3.0)
or HUM 202H World History Through the Arts II (3.0)
or HUM 204G Art Form Focus II (3.0)

Complete 6 credits from the following:
- HUM 2100 Adventures of Ideas Through 1500 (3.0)
or HUM 210H Adventures of Ideas Through 1500 (3.0)
or HUM 2200 Adventures of Ideas After 1500 (3.0)
or 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 6 additional credits from the following: AVC, DANC, ENGL, MUSC, PHIL, THEA (1000 level or higher)

Elective Requirements: 6 Credits
- 1000 level or higher 6.0

Graduation Requirements:
1. Completion of a minimum of 62 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.

Minor in Humanities 18 Credits

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
- HUM 3500 Approaches to Humanities 3.0

Elective Requirements: 15 Credits
Complete 3 credits from the following:
- 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)
or HUM 203G Art Form Focus I (3.0)
Humanities

- HUM 2100 Adventures of Ideas Through 1500 (3.0)
- or HUM 210H Adventures of Ideas Through 1500 (3.0)

Complete 3 credits from the following:
- HUM 2020 World History Through the Arts II (3.0)
- or HUM 202G World History Through the Arts II (3.0)
- or HUM 202H World History Through the Arts II (3.0)
- or HUM 204G Art Form Focus II (3.0)
- or 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:
- 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)
- or HUM 320R Topics in Humanities (1.0)
- or HUM 325R Area Studies in Humanities (3.0)
- or HUM 330R Period Studies in Humanities (3.0)
- or HUM 3800 Aesthetics (3.0)
- or HUM 4000 Humanism and Posthumanism (3.0)
- or HUM 4010 Forms and Genres Across the Arts (3.0)

Graduation Requirements:
1. Complete all Humanities courses with a grade of 2.0 (C) or better.

BA/BS in Integrated Studies 123 Credits

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Humanities 18 Credits

Discipline Core Requirements: 3 Credits
- HUM 3500 Approaches to Humanities 3.0

Elective Requirements: 15 Credits

Complete 9 credits from the following:
- 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)
- or HUM 320R Topics in Humanities (1.0)
- or HUM 325R Area Studies in Humanities (3.0)
- or HUM 330R Period Studies in Humanities (3.0)
- or HUM 3800 Aesthetics (3.0)
- or HUM 4000 Humanism and Posthumanism (3.0)
- or HUM 4010 Forms and Genres Across the Arts (3.0)

Complete 3 credits from the following:
- 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)
- or HUM 203G Art Form Focus I (3.0)
- or HUM 2100 Adventures of Ideas Through 1500 (3.0)
- or HUM 210H Adventures of Ideas Through 1500 (3.0)

Complete 3 credits from the following:
- HUM 2020 World History Through the Arts II (3.0)
- or HUM 202G World History Through the Arts II (3.0)
- or HUM 202H World History Through the Arts II (3.0)
- or HUM 204G Art Form Focus II (3.0)
- or HUM 2200 Adventures of Ideas After 1500 (3.0)
- or HUM 220H Adventures of Ideas After 1500 (3.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- HUM, Humanities
- LATIN, Latin
- PHIL, Philosophy
- RLST, Religious Studies
Information Systems & Technology

Department Chair: Keith Mulbery
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Information Systems & Technology Advisory Board: Andrew Barney, Manager of Security, Adobe Systems Incorporated; Sandy Coleman, Developer/Analyst, Convergys Corp.; 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; David Griffiths, Manager of Engineering Team, AdvancedMD; Gary Hansen, Associate Chair of Information Systems Department, BYU; Josh Hogan, Data Warehouse Management, Nu Skin Enterprises; Jeremiah Jones, Lead Technologist, aVinci Media; Brian Karney, COO, AcessData; Scott Lemon, President, HumanXtensions L.L.C.; Diane Rindlisbacher, Administrative Director of Clinical Informatics and Support Services, Utah Valley Regional Medical Center; Floyd Wilkes, Galileo Processing; Lynne Yocom, ITS Fiber Optics Manager, State of Utah, Utah Dept. of Transportation.

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

Information technology is at the heart of today’s business. Companies are constantly looking to hire technology-savvy college graduates who will help them achieve competitive advantage in this new century. The Information Systems and Technology (IS&T) Department teaches students how to be productive team players in today’s business world through a balanced offering of certificate, associate, and bachelor’s degrees in Information Systems and Information Technology.

The mission of the Information Systems and Technology Department is to provide technologically progressive courses and services that are responsive to our stakeholder community and designed to enhance the competencies of our students in applying information technology to achieve organizational objectives, thus preparing them for successful employment and continuing education. IS&T graduates know how to bring people, information, and technology together to produce enterprise solutions.

Our degree programs are based on national curriculum models developed by Information Systems and Technology professionals and educators. The curriculum is learning outcomes-based and reflects program requirements promulgated by the Accreditation Board for Engineering and Technology (ABET). Our local advisory board provides regular guidance in tailoring the curriculum to local needs.

Our courses are taught by dedicated faculty with real-world experience in systems development and the use of information technologies to meet organizational and business computing needs. Faculty help students become competent in using state-of-the-art technology, to be critical thinkers, to practice excellent communication skills, to develop teamwork and interpersonal skills, and become life-long learners.

PROGRAMS
The Information Systems and Technology Department offers two bachelor’s degrees (BS IS and BS IT), an Associate in Science (AS) degree, a two-year Associate in Applied Science (AAS) degree, a one-year Certificate, and a Minor. In collaboration with the Department of Technology Management, the IS&T Department offers a Bachelor of Science in Technology Management with a Specialization in Information Systems and Technology.

The Bachelor of Science in Information Systems (IS) prepares students to become IS Professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. The BS IS includes three emphases: Business Intelligence Systems (BIS), Geographic Information Systems (GIS), and Health Information Systems (HS). The 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. The GIS emphasis provides graduates with the hands-on experience in the type of systems used by many organizations in the form of mapping and decision support systems. Graduates with the HIS emphasis will use their knowledge of information technology and records management to form the link between clinicians, administrators, technology designers, and information technology professionals.

The focus is on leveraging business technology for strategic advantage. The BS IS includes a significant business component, preparing students for careers as applications software developers, business systems information architects, consultants, e-business developers, information systems auditors, programmer/analysts, systems analysts, and web designer/programmers.

Students completing the Bachelor of Science in Information Technology (IT) learn to install, manage, and maintain the computing infrastructure on which organizational systems run. The BS IT includes two emphases: (1) Computer Forensics and Security and (2) Network Administration and Security. 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. 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.

The Bachelor of Science in Technology Management is a multidisciplinary program for students wishing to add management skills to a chosen technology area. Students graduating with BS Technology Management – Information Systems and Technology Specialization are prepared for careers as project managers and as IT supervisors.

The Associate in Applied Science (AAS) in Information Systems and Technology is a two-year program designed to give students job-ready skills in computer operations, IT support (Help Desk), networking, programming, or web development. Students complete a foundational core and then elect a specialization within a rich set of technical electives. For students looking ahead to a bachelor’s degree, the Associate in Science (AS) in Information Systems and Technology allows students to finish their general education requirements while getting a jump-start on the IS&T core.

In addition to two- and four-year degree programs in information systems and information technology, the IS&T Department offers a Minor and two specializations in Network Administration. The Minor in Information Systems gives students with a business or liberal arts major, the option of strengthening their general studies with technical coursework. For those students interested in computer networking and server administration, there are two alternatives - a one-year Certificate in Network Administration and the Network Administration Emphasis for those pursuing a
Bachelor's degree in Integrated Studies.

Certificate in Network Core Administration: 32 Credits

Discipline Core Requirements: 26 Credits

Complete the following:
- INFO 1200 Information Systems and Technology Fundamentals 3.0
- IT 1510 Introduction to System Administration—Linux/UNIX 3.0
- IT 1600 Computer Architecture and Systems Software 3.0
- INFO 2300 Data Communication Fundamentals or CS 2600 Fundamentals of Data Communications 3.0
- INFO 2050 Database Fundamentals 3.0

Communication Requirement:
- ENGL 1010 Introduction to Writing 3.0

Computation Requirement:
- MAT 1010 Intermediate Algebra 4.0

Human Relations Requirement:
- MGMT 2250 Job Application and Advancement Skills 1.0

or MGMT 3890 Career Preparation (2.0)

Elective Requirements: 6 Credits

Choose 6 credits from the following courses:
- INFO 1000 Computer Programming Concepts (3.0)
- IT 2400 Voice and Data Cabling Fundamentals (3.0)
- IT 2450 Router Management (3.0)
- IT 2530 System Administration—Windows (3.0)
- IT 2760 Information Security Fundamentals (3.0)
- IT 3510 Advanced System Administration—Linux/UNIX (3.0)
- IT 3530 Advanced System Administration—Windows Server (3.0)
- IT 3600 Networks and Internetworking (3.0)

Graduation Requirements:
1. Completion of a minimum of 32 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.

AAS in Information Systems and Technology: 65 Credits

General Education Requirements: 17 Credits

ENGLISH
- ENGL 1010 Introduction to Writing 3.0

MATHEMATICS
- MATH 1050 College Algebra 4.0

or Any higher Mathematics Course

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
- Any approved Humanities, Fine Arts, or Foreign Language Area

Language Distribution course

SOCIAL AND BEHAVIORAL SCIENCE
- ECON 2020 Microeconomics (fulfills Social/Behavioral Science) 3.0

BIOLOGY OR PHYSICAL SCIENCE
- PHYS 1010 Elementary Physics 3.0
- PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
- Any approved Physical Education, Health, Safety or Environment Course 1.0

Discipline Core Requirements: 42 Credits

Written Communication Requirement:
- ENGL 2010 Intermediate Writing—Humanities/Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

IT Application Domain Requirement (6.0):
- Accounting Domain Option -
  - ACC 2010 Financial Accounting 3.0
- and ACC 2020 Managerial Accounting or
- or ACC 2030 Financial Management and Cost Accounting Concepts 4.0

and Any approved Accounting- or Business-related Course (2.0)

or Any other approved IT Application Domain

Core Requirements:
- INFO 1200 Information Systems and Technology Fundamentals 3.0
- INFO 1200 Computer Programming I for IS/IT 3.0
- IT 1510 Introduction to System Administration—Linux/UNIX 3.0
- IT 1600 Computer Architecture and Systems Software 3.0
- INFO 2030 Data Communication Fundamentals or CS 2600 Fundamentals of Data Communications (3.0)
- INFO 2050 Database Fundamentals 3.0
- INFO 2200 Computer Programming II for IS/IT 3.0
- INFO 2450 Web Application Design 3.0
- INFO 3410 Database Systems 3.0
- INFO 3420 Systems Analysis and Design 3.0
- IT 3600 Networks and Internetworking 3.0

Elective Requirements: 6 Credits

Choose a minimum of 6 credits from the following:
- INFO 1000 Computer Programming Concepts (3.0)
- IT 2400 Voice and Data Cabling Fundamentals (3.0)
- IT 2450 Router Management (3.0)
- IT 2530 System Administration—Windows (3.0)
- INFO 281R Internship (1.0)
- COMP 301R Digital Lecture Series (1.0)
- INFO 3120 Principles of Information Systems—A Managerial Approach (3.0)
- INFO 3420 Web Systems Development I (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- IT 3510 Advanced System Administration—Linux/UNIX (3.0)
- IT 3530 Advanced System Administration—Windows Server (3.0)
- IT 3700 Information Security—Network Defense and Countermeasures (3.0)
- Any other department-approved elective

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 course attendance at UVU.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

AS Pre Major in Information Systems and Technology: 61 Credits

General Education Requirements: 36 Credits:

ENGL 1010 Introduction to Writing 3.0

or ENGL 2010 Intermediate Writing—Humanities/Social Sciences 3.0

or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

or MATH 1050 College Algebra 4.0

Complete the following:

- HIST 2700 U.S. History to 1877 (3.0)
- or HIST 2710 U.S. History since 1877 (3.0)
- or HIST 1700 American Civilization (3.0)
- or HIST 1740 U.S. Economic History (3.0)
- or POLS 1010 American Heritage (3.0)
- or POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3.0
- or HIST 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life (2.0)

Distribution Courses

- Biology Distribution 3.0
- Physical Science Distribution 3.0
- An Additional Biology or Physical Science Distribution Course 3.0
- Fine Arts Distribution 3.0
- Humanities Distribution 3.0
- Social/Behavioral Science Distribution (ECON 2020 recommended) 3.0

Discipline Core Requirements: 64 Credits

Required Courses:

- MATH 1100 Introduction to Calculus 4.0
- INFO 1200 Computer Programming I for IS/IT 3.0
- IT 1510 Introduction to System Administration—Linux/UNIX 3.0
- INFO 2050 Database Fundamentals 3.0
- INFO 2200 Computer Programming II for IS/IT 3.0
- INFO 2450 Web Application Design 3.0

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 course attendance at UVU.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

BS in Information Systems: 121 Credits

General Education Requirements: 36 Credits:

ENGL 1010 Introduction to Writing 3.0

or ENGL 2010 Intermediate Writing—Humanities/Social Sciences 3.0

or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

or MATH 1050 College Algebra 4.0

Complete the following:

- HIST 2700 U.S. History to 1877 (3.0)
- or HIST 2710 U.S. History since 1877 (3.0)
- or HIST 1700 American Civilization (3.0)
- or HIST 1740 U.S. Economic History (3.0)
- or POLS 1010 American Heritage (3.0)
- or POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3.0
- or HIST 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life (2.0)

Distribution Courses

- Biology Distribution 3.0
- Physical Science Distribution 3.0
- An Additional Biology or Physical Science Distribution Course 3.0
- Fine Arts Distribution 3.0
- Humanities Distribution 3.0
- Social/Behavioral Science Distribution (ECON 2020 recommended) 3.0

Discipline Core Requirements: 64 Credits

Required Courses:

- MATH 2340 Business Statistics I 3.0
- or MATH 2350 Statistics (4.0)

IS Environment/Business Foundation Requirements:

- ACC 2010 Financial Accounting 3.0
- or LEGL 3020 Intellectual Property and Cyber Law 1.0
- MKTG 3600 Principles of Marketing 3.0
- or MGMT 2200 Business Communication 3.0
- or MGMT 3510 Principles of Management 3.0

IS Core Requirements:

- COMP 301R Digital Lecture Series 1.0
- or INFO 1120 Information Systems and Technology Fundamentals 3.0
- or INFO 1200 Computer Programming I for IS/IT 3.0
- or INFO 2030 Data Communication Fundamentals 3.0
- or INFO 2050 Database Fundamentals 3.0
- or INFO 2200 Computer Programming II for IS/IT 3.0
- or INFO 2450 Web Application Design 3.0
- or INFO 3210 Principles of Information Systems—A Managerial Approach 3.0
- or INFO 3410 Database Systems 3.0
- or INFO 3420 Web Systems Development I (3.0)
- or INFO 450G Global Ethical and Professional Perspectives in IS and IT 3.0
- or INFO 4120 Business Intelligence Systems 3.0
- or INFO 4430 Systems Design and Implementation 3.0

Project/Research Experience:
- INFO 481R Internship (1.0)
- or INFO 489R Undergraduate Research in Information Systems & Technology (1.0)
Security—Choose 3 hours from the following: 3.0
- IT 2700 Information Security Fundamentals (3.0)
or IT 2800 Computer Forensic Fundamentals (3.0)
or IT 4800 Advanced Computer Forensics (3.0)

Emphasis: Complete one of the following:
- Business Intelligence Systems 21.0
- Geographic Information Systems 23.0
- Healthcare Information Systems 22.0

Graduation Requirements:
1. Completion of at least 121 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.

Emphasis in Business Intelligence Systems 21 Credits

Emphasis Elective Requirements: 12 Credits
- MGMT 2240 Foundations of Business Statistics 3.0
or MATH 1100 Introduction to Calculus (4.0)
- INFO 4130 Advanced Business Intelligence Systems 3.0
Advanced Business: Choose 6 hours from the following:
- ACC 2020 Managerial Accounting (3.0)
- FIN 3100 Principles of Finance (3.0)
- LEGL 3000 Business Law (3.0)
- MGMT 3430 Human Resource Management (3.0)
- MGMT 3450 Operations Management (3.0)

Emphasis Elective Requirements: 9 Credits
Choose 9 credit hours from the following: 9.0
- INFO 3422 Open Source Internet Application Development (3.0)
- INFO 4440 Enterprise Computing Environments (3.0)
- ACC 3510 Accounting Information Systems (3.0)
- ACC 4510 Information Systems Auditing (3.0)

Emphasis in Geographic Information Systems 23 Credits

Emphasis Elective Requirements: 16 Credits
- MATH 1050 Introduction to Calculus 3.0
- GEOG 1300 Survey of World Geography 3.0
- GIS 3630 Introduction to Geographic Information Systems 4.0
- GIS 2640 Geographic Information Systems and Surveying 3.0
- GIS 3650 Thematic Mapping Culture and Society (3.0)
- SURV 2210 Photogrammetry and Remote Sensing (3.0)

Emphasis Elective Requirements: 3 Credits
Choose 3 credit hours from the following: 3.0
- GIS 3640 Thematic Mapping Environmental Impacts (3.0)
- GIS 3650 Thematic Mapping Culture and Society (3.0)
- SURV 2210 Photogrammetry and Remote Sensing (3.0)

Emphasis in Healthcare Information Systems 22 Credits

Emphasis Elective Requirements: 16 Credits
- HLTH 1300 Introduction to Health Professions 2.0
- HLTH 2200 Health Informatics Fundamentals 2.0
- INFO 3700 Healthcare Information Systems 3.0
or
- INFO 3750 Healthcare Information Systems Management 3.0
- INFO 4700 Human Resource Management 3.0
- MGMT 3430 Geographic Information Systems and Surveying 3.0

Emphasis Elective Requirements: 6 Credits
Choose 6 upper division credit hours from INFO or IT courses

BS in Information Technology 124 Credits

General Education Requirements: 48 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing–Humanities 3.0
- or ENGL 2020 Intermediate Writing–Science and Technology 3.0
- MATH 1050 College Algebra 4.0
Complete one of the following:
- HIST 2700 Human 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
- HLTH 1100 Personal Health and Wellness 2.0
or PES 1097 Fitness for Life (2.0)

Distribution Courses
- Biology Distribution 3.0
- Fine Arts Distribution (ART 1050 for Forensics emphasis) 3.0
- Social/Behavioral Science Distribution (CJ 1010 for Forensics emphasis) 3.0
- Physical Science Distribution 3.0
- ENGL 2310 Technical Communication (fulfills Humanities) 3.0
- PHYS 2015 College Physics I (fulfills Physical Science) 4.0
and PHYS 2010 College Physics I Lab 1.0

Discipline Core Requirements: 53 Credits

IT Core Requirements:
- MATH 2400 Principles of Statistics (4.0)

IT Application Domain Requirement:
- Choose 15 credits from the following:
  - IT 2450 Linux/UNIX (3.0)
  - IT 2460 Operating System Fundamentals (3.0)
  - IT 2470 Data Base Fundamentals (3.0)

Minor in Information Systems and Technology 21 Credits

Discipline Core Requirements: 9 Credits

- INFO 1100 Information Systems and Technology Fundamentals (3.0)
Complete the following:
- INFO 1200 Computer Programming I for IS/IT (3.0)
- IT 1600 Computer Architecture and Systems Software (3.0)
- INFO 2050 Database Fundamentals (3.0)
**Information Systems & Technology**

**Elective Requirements:** 12 Credits

Complete 12 credits from the following, 9 credits of which must be upper division:

- IT 1510 Introduction to System Administration--Linux/UNIX (3.0)
- INFO 2030 Data Communication Fundamentals (3.0)
- INFO 2200 Computer Programming II for IS/IT (3.0)
- INFO 2450 Web Application Design (3.0)
- IT 2530 System Administration--Windows (3.0)
- IT 2700 Information Security Fundamentals (3.0)
- IT 3600 Networks and Internetworking (3.0)
- INFO 3120 Principles of Information Systems--A Managerial Approach (3.0)
- INFO 3410 Database Systems (3.0)
- INFO 3420 Web Systems Development I (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- IT 3510 Advanced System Administration--Linux/UNIX (3.0)
- IT 3530 Advanced System Administration--Windows Server (3.0)
- IT 3700 Information Security--Network Defense and Countermeasures (3.0)

**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 courses required for the minor.

**BA/BS in Integrated Studies 123 Credits**

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

**Emphasis in Computer Networking 18 Credits**

**Emphasis Requirements:** 18 Credits

- INFO 1120 Information Systems and Technology Fundamentals (3.0)
- INFO 1200 Computer Programming I for IS/IT (3.0)
- IT 1600 Computer Architecture and Systems Software (3.0)

Complete the following:

- INFO 2030 Data Communication Fundamentals (3.0)
- IT 1510 Introduction to System Administration--Linux/UNIX (3.0)
- IT 2700 Information Security Fundamentals (3.0)

**Elective Requirements:** 12 Credits

Complete a minimum of 12 credits from the following:

- INFO 1000 Computer Programming Concepts (3.0)
- INFO 1100 Exploring the Digital Domain (3.0)
- INFO 2100 Business Computer Productivity with IS Technology (3.0)
- IT 2400 Voice and Data Cabling Fundamentals (3.0)
- IT 2450 Router Management (3.0)
- IT 2530 System Administration--Windows (3.0)
- IT 2700 Information Security Fundamentals (3.0)
- INFO 281R Advanced Computer Forensics (3.0)
- COMP 301R Digital Lecture Series (1.0)
- INFO 3420 Web Systems Development I (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- IT 3510 Advanced System Administration--Linux/UNIX (3.0)
- IT 3530 Advanced System Administration--Windows Server (3.0)
- IT 3700 Information Security--Network Defense and Countermeasures (3.0)
- Any approved Accounting- or Business-related Course up to 6 credits

**BS in Technology Management 125 Credits**

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

**Specialization in Information Systems and Technology 45 Credits**

**Emphasis Requirements:** 33 Credits

- INFO 1120 Information Systems and Technology Fundamentals (3.0)
- INFO 1200 Computer Programming I for IS/IT (3.0)
- IT 1510 Introduction to System Administration--Linux/UNIX (3.0)
- IT 1600 Computer Architecture and Systems Software (3.0)
- INFO 2030 Data Communication Fundamentals (3.0)
- INFO 2050 Database Fundamentals (3.0)
- INFO 2200 Computer Programming II for IS/IT (3.0)
- INFO 2450 Web Application Design (3.0)
- INFO 3410 Database Systems (3.0)
- INFO 3430 Systems Analysis and Design (3.0)
- IT 3600 Networks and Internetworking (3.0)
- INFO 1000 Computer Programming Concepts (3.0)
- INFO 1100 Exploring the Digital Domain (3.0)
- INFO 2100 Business Computer Productivity with IS Technology (3.0)
- IT 2400 Voice and Data Cabling Fundamentals (3.0)
- IT 2450 Router Management (3.0)
- IT 2530 System Administration--Windows (3.0)
- IT 2700 Information Security Fundamentals (3.0)
- INFO 281R Advanced Computer Forensics (3.0)
- COMP 301R Digital Lecture Series (1.0)
- INFO 3420 Web Systems Development I (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- IT 3510 Advanced System Administration--Linux/UNIX (3.0)
- IT 3530 Advanced System Administration--Windows Server (3.0)
- IT 3700 Information Security--Network Defense and Countermeasures (3.0)
- Any approved Accounting- or Business-related Course up to 6 credits

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- COMP, Computing
- INFO, Information Systems & Technology
- IT, Information Technology
SUMMARY OF THE DEGREE

• After becoming familiar with the material on the IS website (http://www.uvu.edu/is/), meet with an advisor 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 http://www.uvu.edu/is/emphases/.

• Complete the Integrated Studies Discipline Core with a minimum grade of C- in each class.

• Complete forty hours of upper-division course work.

• 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 2020 class in the chosen foreign language. For a Bachelor of Science degree, students must complete either MATH 1210 or MATH 2040.

College of Humanities & Social Sciences

Dean: David P. Yells
Office: LA 209d
Telephone: 801-863-7435

CAREER OPPORTUNITIES

For those completing the Bachelor Degree in Integrated Studies (IS), many opportunities exist for advanced and professional degrees (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.

CURRICULUM

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.

AA Pre Major in Integrated Studies 60 CREDITS

General Education Requirements: 35 Credits

• ENGL 1010 Introduction to Writing
• ENGL 2010 Intermediate Writing—Humanities/ Social Sciences
• ENGL 2020 Intermediate Writing—Science and Technology

Complete one of the following:

• MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors)
• MATH 1040 Introduction to Statistics (recommended for Social Science majors)
• MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors)

Complete one of the following:

• HIST 1700 US History to 1877
• HIST 1710 US History since 1877
• HIST 1740 US Economic History
• POLS 1000 American Heritage
• POLS 1100 American National Government

Complete the following:

• PHIL 2050 Ethics and Values
• HLTH 1100 Personal Health and Wellness
• PES 1097 Fitness for Life

Distribution Courses

• Biology
• Physical Science
• Additional Biology or Physical Science
• Humanities Distribution
• Fine Arts Distribution
• Social/Behavioral Science

Elective Requirements: 8 Credits

• One Language (other than English) to include the 1010 or 1020 levels.

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.

AS Pre Major in Integrated Studies 60 CREDITS

General Education Requirements: 35 Credits

• ENGL 1010 Introduction to Writing
• ENGL 2010 Intermediate Writing—Humanities/ Social Sciences
• ENGL 2020 Intermediate Writing—Science and Technology

Complete one of the following:

• MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors)
• MATH 1040 Introduction to Statistics (recommended for Social Science majors)
• MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors)

Complete one of the following:

• HIST 2700 US History to 1877
• HIST 2710 US History since 1877
• HIST 1700 American Civilization
• HIST 1740 US Economic History
• POLS 1000 American Heritage
• POLS 1100 American National Government

Complete the following:

• PHIL 2050 Ethics and Values
• HLTH 1100 Personal Health and Wellness
• PES 1097 Fitness for Life

Distribution Courses

• Biology
• Physical Science
• Additional Biology or Physical Science
• Humanities
• Fine Arts
• Social/Behavioral Science

Discipline Core Requirements: 25 Credits

• Complete any courses 1000 or higher (if planning to complete a BA degree, see advisor for list of recommended courses)

BA in Integrated Studies 123-126 CREDITS

Matriculation Requirements:

1. An associate in arts or associate in science degree, or
2. Junior status in college with approximately 60 or more credits.
3. 2.5 GPA minimum.

General Education Requirements: 36 Credits

• ENGL 1010 Introduction to Writing
• ENGL 2010 Intermediate Writing—Humanities/ Social Sciences
• ENGL 2020 Intermediate Writing—Science and Technology

Complete one of the following:

• MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors)
• MATH 1040 Introduction to Statistics (recommended for Social Science majors)
• MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors)
Complete one of the following: 3.0
- 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)
- HIST 1740 US Economic History (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:
- PHIL 2050 Ethics and Values 3.0
- HLT 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
- Any 2002 Foreign Language course 4.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 21 Credits
- IS 330R Introductory Topics in Integrated Studies 3.0
  - Topics in Integrated Studies 3.0
  - One additional section of 300R or 350R 3.0
  - Upper-Division Theory Course: PHIL 3000+ or other approved course 3.0
  - Upper-Division Theory Course: PHIL 3000+ or other approved course 3.0
- IS 4980 Integrated Studies Capstone I 3.0
- IS 4990 Integrated Studies Capstone II 3.0

Emphasis Requirements: 36 Credits
- Complete 1 approved Integrated Studies Emphasis 18.0
- Complete another approved Integrated Studies Emphasis 18.0

Elective Requirements: 30 Credits
- One Foreign Language (Foreign Language 202G 12.0
  course fulfills Humanities Distribution)
- Complete any 1000-level or higher courses 18.0

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 a "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 levels or transferred equivalents.
6. Students completing a bachelor degree following the 2008 or later catalog must complete one course that meets the Global/Intercultural Requirement, indicated by a course number ending in G. For a complete listing, see page 25.

Note: All Emphases are required to have a minimum of 9 upper-division credits (with 12 preferred).

Emphasis in American Studies 18 Credits

Emphasis Requirements: 9 Credits
- AMST 2000 Introduction to American Studies 3.0
- AMST 300R Topics in American Studies (3.0, credits must be repeated)

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.

Emphasis in Anthropology 19 Credits

Emphasis Requirements: Topics in Anthropology 19 Credits
- ANTH 101G Social/Cultural Anthropology** (3.0)

Complete the following courses:
- ANTH 1020 Biological Anthropology 3.0
- BESC 3130 Statistics for the Behavioral Sciences 4.0
- ANTH 4120 History of Anthropological Thought 3.0
- or ANTH 4130 Contemporary Theory and Debates (3.0)
- ANTH 3850 Ethnographic Methods 3.0

Complete 6 additional credits in Anthropology. Three credits must be upper division.

Footnotes:
** ANTH 101G is an introductory course and pre-requisite which may not be used in the 19 hours required for these Integrated Studies Emphases.

Emphasis in Art History 18 Credits

Emphasis Requirements: 18 Credits
- ARTH 2710 History of Art to the Renaissance 3.0
- ARTH 2720 History of Art from the Renaissance 3.0

Complete 12 credits from the following courses:
- 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 Twentieth-Century Art and Architectural History (3.0)
- ARTH 391R Art History Seminar (3.0)

Emphasis in Ballet 20 Credits

Emphasis Requirements: 20 Credits
- Prerequisites (see advisor):
  - DANC 1330 Studio Workshop—Creative Process in Dance (1.0)
  - DANC 2110 Orientation to Dance (3.0)
  - DANC 2670 Introduction to Laban Studies (2.0)

Complete the following:
- DANC 2340 Composition 2.0
- DANC 356G World Dance Forms 3.0
- DANC 3630 Dance History 3.0
- DANC 3670 Movement Analysis 3.0
- DANC 4880 Current Issues in Dance 3.0

Complete 6 credits from the following classes:
- DANC 227R Ballet Technique II (3.0)
- DANC 327R Ballet Technique III (3.0)
- DANC 427R Ballet Technique IV (3.0)
- DANC 428R Ballet Technique V (3.0)

Emphasis in Ballroom Dance 20 Credits

Emphasis Requirements: 20 Credits
- Prerequisites (see advisor):
  - DANC 1330 Studio Workshop—Creative Process in Dance (1.0)
  - DANC 2110 Orientation to Dance (3.0)
  - DANC 2670 Introduction to Laban Studies (2.0)

Complete the following:
- DANC 2340 Composition 2.0
- DANC 356G World Dance Forms 3.0
- DANC 3630 Dance History 3.0
- DANC 3670 Movement Analysis 3.0
- DANC 4880 Current Issues in Dance 3.0

Complete 6 credits from the following classes:
- DANC 227R Ballet Technique II (3.0)
DANC 1700 American Social Dance I (3.0)
DANC 1710 International Ballroom Dance I (1.0)
DANC 1720 Latin Ballroom Dance I (1.0)
DANC 2700 American Social Dance II (1.0)
DANC 2710 International Ballroom Dance II (1.0)
DANC 2720 Latin Ballroom Dance II (1.0)
DANC 370R American Social Dance III (1.0)
DANC 371R International Ballroom Dance III (1.0)
DANC 372R Latin Ballroom Dance III (1.0)
DANC 3730 American Social Dance Teaching Methods (2.0)
DANC 376R Ballroom Dance Company Reserve Tour Team (2.0)
DANC 4740 International Ballroom Dance Teaching Methods (3.0)
DANC 4750 Latin Ballroom Dance Teaching Methods (3.0)
DANC 476R Ballroom Dance Company Tour Team (2.0)

Emphasis in Business Management 18 Credits

Business Management Emphasis

Prerequisites:

• ACC 2010 Financial Accounting (3.0)
• ACC 2020 Managerial Accounting (3.0)
• or ACC 2030 Principles of Accounting (6.0)
• or ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
• or DGM 2010 Basic Computer Proficiency (3.0)
• or Business Computer Proficiency Exam

Complete the following:

• INFO 3120 Principles of Information Systems—A Managerial Approach (3.0)
• ECN 2200 Macroeconomics (3.0)
• or MGMT 3010 Principles of Management (3.0)
• or MKTG 3020 Principles of Marketing (3.0)
• Complete 6 credits from the following:
  • LEGL 3000 Business Law (3.0)
  • ECN 2100 Microeconomics (3.0)
  • ENGL 2100 Principles of Finance (3.0)
  • MGMT 3300 Survey of International Business (3.0)
  • MGMT 3430 Human Resource Management (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.

Emphasis in Cinema Studies 18 Credits

Prerequisites:

• ENGL 2150 Critical Introduction to Cinema Studies (3.0)
• or THEA 2313 Film History I (3.0)
• ENGL 3150 Film Theory (3.0)

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).

Emphasis in Classical Studies 18 Credits

Prerequisites:

• PHIL 3110 Ancient Greek Philosophy (3.0)
• or HIST 3110 Greek History (3.0)
• or Ancient History Set (complete 3 credits from the following)
  • HIST 3310 Roman Republic (3.0)
  • HIST 3410 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 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.

• 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 (3.0)
• ENGL 2230 Myths and Legends in Literature (3.0)
• ENGL 3610 Medieval Literature (3.0)
• ENGL 3760 World Literature (3.0)
• HIST 3310 Roman Republic (3.0)
• HIST 3410 Roman Empire (3.0)
• HUM 2010 World History Through the Arts I (3.0)
• HUM 2500 Introduction to Ancient Greek I (6.0)
• PHIL 3120 Intro to Ancient Greek I (3.0)
• PHIL 3130 Intro to Ancient Greek II (6.0)

Emphasis in Communication 18 Credits

Emphasis Requirements: 18 Credits

Complete one of the following tracks:

• TRACK ONE: COMMUNICATIONS

Complete 6 credits from the following:

• COMM 1500 Introduction to Mass Communication (3.0)
• COMM 1050 Introduction to Speech Communication (3.0)
• COMM 2110 Mass Communication and Society (3.0)
• COMM 2110 Introduction to Modern Communication (3.0)
• COMM 2120 Media Analysis and Decision Making (3.0)
• THEA 2313 Film History I (3.0)
• THEA 2323 Film History II (3.0)

Complete 12 credits from the following:

• ANTH 3500 Discourse Semiotics and Representation (3.0)
• COMM 3050 Theories of Communication and Culture (3.0)
• COMM 3100 Propaganda and Persuasion (3.0)
• COMM 3110 Non-Fiction Cinema History (3.0)
• COMM 3320 Cross-Cultural Communications for International Business (3.0)
• COMM 355R Special Topics in Mass Communication (3.0)
• COMM 3620 International Communication (3.0)
• COMM 3700 Free Expression in a Democratic Society (3.0)
• COMM 3780 Mormon Cultural Studies (3.0)

• TRACK TWO: JOURNALISM

Complete 6 credits from the following:

• COMM 1130 Writing for the Mass Media (3.0)
• COMM 2010 Mass Communication and Society (3.0)
• COMM 2560 Radio Production (3.0)
• COMM 2700 Magazine Writing History (3.0)

Complete 12 credits from the following:

• COMM 3000 Media Ethics (3.0)
• COMM 3100 Propaganda and Persuasion (3.0)

Emphasis in Computer Networking 18 Credits

Emphasis Requirements: 18 Credits

Complete the following:

• INFO 2030 Data Communication Fundamentals (3.0)
• IT 1510 Introduction to System Administration—Linux/UNIX (3.0)
• IT 2700 Information Security Fundamentals (3.0)

Complete 9 credits from the following:

• INFO 405G Global Ethical and Professional Perspectives in IS and IT (3.0)
• IT 2530 System Administration—Windows (3.0)
• IT 3510 Advanced System Administration—Linux/UNIX (3.0)
• IT 3530 Advanced System Administration—Windows Server (3.0)
• IT 3560 Networks and Internetworking (3.0)
• IT 3700 Information Security—Network Defense and Countermeasures (3.0)
• IT 4800 Enterprise Network Architectures and Administration (3.0)
• Advanced Computer Forensics

Emphasis in Community Health 18 Credits

Emphasis Requirements: 18 Credits

Complete the following:

• HLTH 3200 Principles of Community Health (3.0)
• HLTH 3220 Foundations of Health Education (3.0)
• HLTH 3400 Human Diseases (3.0)
• or HLTH 3800 Epidemiology (3.0)
• HLTH 4300 Community Health Ethics (3.0)
• or HLTH 4600 Research Methods for Community Health (3.0)

Choose 6 credits from the following:

• NUTR 1100 Foundations of Human Nutrition (3.0)
• NUTR 2200 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 Women's Health Issues (3.0)
• HLTH 3250 Consumer Health (3.0)
• HLTH 3280 Modifying Health Behavior (3.0)
• HLTH 3300 Health Promotion for Older Adults (3.0)
• HLTH 4150 Community Health Program Development and Evaluation (3.0)
• HLTH 4250 Health Services Organization and Policy (3.0)
• HLTH 490R Special Topics in Community Health (1.0)

Emphasis in Computer Science 18 Credits

Emphasis Requirements: 18 Credits

Prerequisites:

• INFO 1120 Information Systems and Technol-
### Integrated Studies

Choose 15 credits from the following: 15.0
- **CS 3240** Introduction to Computational Theory (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.

### Emphasis in Digital Media 18 Credits

**Emphasis Requirements:** 16 Credits

**Prerequisite courses:**
- **DGM 1110** Digital Media Essentials (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)
- **DGM 2120** Web Essentials (3.0)

Complete the following:
- **DGM 312G** Digital Media for Intercultural Communication (3.0)
- **DGM 3220** Digital Media Project Management (3.0)
- **DGM 4000** Writing for Digital Media (3.0)
- **ENG 4310** Advanced Technical Communication (3.0)
- **DGM 4310** Digital Media Project Management (3.0)
- **DGM 4330** Corporate Issues in Digital Media (3.0)
- **DGM 4410** Senior Projects II (3.0)

### Emphasis in Earth Science 18 Credits

**Emphasis Requirements:** 18 Credits

**Earth Science Emphasis:**
- **GEO 1010** Introduction to Geology (3.0)
- **GEO 1015** Introduction to Geology Laboratory (highly recommended) (1.0)

Complete one of the following sets (lab is highly recommended):
- **GEO 1220** Historical Geology (3.0)
- **GEO 1085** Introduction to Oceanography (3.0)
- **METO 1010** Meteorology Laboratory (1.0)
- **METO 3100** Climate and the Earth System (3.0)

**Meteorology Emphasis:**
- **GEO 1010** Introduction to Geology Laboratory (1.0)
- **GEO 1225** Historical Geology Laboratory (1.0)
- **GEO 3060** Earth Materials (4.0)
- **GEO 3060** Geologic Hazards (4.0)
- **GEO 3700** Structure and Tectonics (4.0)
- **GEO 4500** Sedimentary Geology (4.0)
- **GEO 4510** Palaeontology (4.0)
- **ENV 3000** GIS and GPS Applications for the Earth Sciences (3.0)
- **ENVT 3790** Hydrology I (4.0)

### Emphasis in Economics 18 Credits

**Discipline Core Requirements:** 12 Credits
- **ECON 2010** Macroeconomics (3.0)
- **ECON 2020** Macroeconomics (3.0)
- **ECON 3020** Managerial Economics (3.0)
- **ECON 3830** History of Economic Thought (3.0)

**Elective Requirements:** 6 Credits
- Choose six hours from the following courses (6.0)
- **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)
- **MGMT 3100** Principles of Finance (3.0)

**Choice 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)

### Emphasis in French 18 Credits

**Emphasis Requirements:** 18 Credits

Choose 18 credits from the following:
- **FREN 3030** French Composition and Conversation (3.0)
- **FREN 3040** Introduction to Literary Genres in French (3.0)
- **FREN 3050** Advanced French* (3.0)
- **FREN 3200** Business French (3.0)
- **FREN 3510** Culture and Civilization to 1700 (3.0)
- **FREN 3520** Culture and Civilization from 1700 (3.0)
- **FREN 3610** French Literature to 1700 (3.0)
- **FREN 3620** French Literature from 1700 (3.0)
- **FREN 4200** Advanced Business French (3.0)
- **FREN 4690R** Special Topics in French (3.0)

Footnotes:
- **FREN 3040** or **3050** is the prerequisite to all higher-numbered courses listed in Discipline Core Requirements.

### Emphasis in German 18 Credits

**Matriculation Requirements:**
Students with more than one year of in-country experience should enroll in German 3050.

**Emphasis 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 2020** Intermediate German II (4.0)

Choose 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 3550** German Culture and Civilization (3.0)
- **GER 3800** Topics in German Studies (3.0)
- **GER 4200** Advanced Business German (3.0)
- **LANG 3000** Language and Culture (3.0)
- **LANG 481R** Language Internship (1.0-8.0 credits)

### Emphasis in Graphic Design 18 Credits

**Emphasis Requirements:** 18 Credits

**Graphic Design Emphasis:**
- **ART 4100** Graphic Computer Applications (3.0)
- **ART 4110** Typography and Layout I (3.0)
- **ART 2430** Graphic Design I (3.0)

Complete 9 credits from the following courses:
- **ART 3430** Graphic Design II (3.0)
- **ART 346R** Interactive Design II (3.0)
- **ART 3470** Digital Painting (3.0)
- **ART 443R** Special Topics in Graphic Design (3.0)

### Emphasis in History 18 Credits

**Emphasis Requirements:** 18 Credits

**History Emphasis:**
Complete one of the following:
- **HIST 3010** The Nature of History (3.0)
- **HIST 3260** History of Utah (3.0)

Complete an additional 15 credits from any HIST course 3000 or higher (see advisor)

### Emphasis in Hospitality Management 18 Credits

**Emphasis Requirements:** 18 Credits

**Hospitality Management Emphasis:**
Complete the following:
Emphasis in Humanities 18 Credits

Emphasis Requirements: 9 Credits

- HM 3500 Approaches to Humanities 3.0

Complete 9 credits from the following:

- HUM 1010 Humanities Through the Arts (3.0)
- HUM 1011 Humanities Through the Arts (3.0)
- HUM 2030 Art Form Focus I (3.0)
- HUM 2100 Adventures of Ideas Through 1500 (3.0)
- HUM 2101 Adventures of Ideas Through 1500 (3.0)
- HUM 2040 Art Form Focus II (3.0)
- HUM 2200 Adventures of Ideas After 1500 (3.0)
- HUM 2201 Adventures of Ideas After 1500 (3.0)

Complete 3 credits from the following:

- HUM 2020 World History Through the Arts I (3.0)
- HUM 2021 World History Through the Arts II (3.0)
- HUM 2022 World History Through the Arts II (3.0)
- HUM 2041 Art Form Focus III (3.0)
- HUM 2300 Adventures of Ideas After 1500 (3.0)
- HUM 2200 Adventures of Ideas After 1500 (3.0)

Emphasis in Leadership 18 Credits

Emphasis Requirements: 18 Credits

Leadership (Upper Division) Emphasis

Prerequisites:
- ACC 2010 Financial Accounting (3.0)
- ACC 2020 Managerial Accounting (3.0)
- or ACC 2030 Principles of Accounting (6.0)
- or ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)

Complete the following:

- INFO 3120 Principles of Information Systems—A Managerial Approach 3.0
- ECON 2020 Microeconomics 3.0
- MGMT 3000 Organizational Behavior 3.0
- MGMT 3010 Principles of Management 3.0
- MGMT 3500 Leadership Theory and Application 3.0
- MGMT 3600 Principles of Marketing 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.

Emphasis in Military Science 18 Credits

Emphasis Requirements: 18 Credits

- MILS 3200 Small Unit Leadership I 3.0
- MILS 3210 Small Unit Leadership II 3.0
- MILS 4200 The Profession of Arms I 3.0
- MILS 4210 The Profession of Arms II 3.0
- HIST 3453 The History of World War II (3.0)
- HIST 3520 The United States and Vietnam—1945 to Present (3.0)
- HIST 4740 American Revolution (3.0)
- Bombay or Its Community Policing (3.0)
- ENGL 2310 Technical Communication (3.0)
- DGM 3265 Authoring for Virtual Reality Environments (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 3800 International Relations of East Asia (3.0)

Emphasis in Modern Dance 20 Credits

Emphasis Requirements: 20 Credits

Prerequisites:
- DANC 1330 Studio Workshop—Creative Process in Dance (1.0)
- DANC 2110 Orientation to Dance (3.0)
- DANC 2270 Introduction to Laban Studies (2.0)

Complete the following:

- DANC 2340 Composition 2.0
- DANC 3630 Dance History 3.0
- DANC 365G World Dance Forms 3.0
- DANC 3670 Movement Analysis 3.0
- DANC 4880 Current Issues in Dance 3.0

Complete 6 credits from the following classes:

- DANC 143R Modern Dance Technique and Theory I (3.0)
- DANC 144R Modern Dance Technique and Theory I (3.0)
- DANC 243R Modern Dance Technique and Theory II (3.0)
- DANC 244R Modern Dance Technique and Theory II (3.0)
- DANC 341R Modern Dance Technique and Theory III (3.0)
- DANC 342R Modern Dance Technique and Theory III (3.0)
- DANC 441R Modern Dance Technique and Theory IV (3.0)
- DANC 442R Modern Dance Technique and Theory IV (3.0)

Emphasis in Music 18 Credits

Emphasis Requirements: 18 Credits

Prerequisites (see advisor)
- MUSC 1110 Music Theory I (3.0)
- MUSC 1120 Music Theory II (3.0)
- MUSC 1130 Aural Skills I (1.0)
- MUSC 1140 Aural Skills II (1.0)
- MUSC 2050 Private Lessons for Music Majors (4.0) (Repeats 4 times on major instrument or voice. Requires a grade B+ or higher) (1.0)

Complete 4 credits from the following:

- MUSC 320R Masterworks Choral (1.0)
- MUSC 322R Chamber Choir (1.0)
- MUSC 326R Chamber Choir Treble Singers (3.0)
- MUSC 330R Wind Symphony (1.0)

- MUSC 332R Jazz Ensemble (1.0)
- MUSC 370R Symphony Orchestra (1.0)
- MUSC 372R Chamber Orchestra (1.0)

Complete the following:
- MUSC 2110 Music Theory III 3.0
- MUSC 2130 Aural Skills III 1.0

Complete 6 additional credit hours of music courses (four of these credits must be upper division)

Emphasis in Office Management 20 Credits

Emphasis Requirements:

Prerequisites (can fulfill elective requirements):
- DGM 2350 Word Processing (3.0)
- DGM 2360 Spreadsheet Applications (3.0)
- DGM 2370 Database Applications (3.0)
- DGM 3820 Presentation Applications (3.0)
- MGMT 2200 Business Communication (3.0)

Complete the following required courses:
- DGM 2120 Web Essentials 3.0
- DGM 3220 Digital Media Project Management 3.0
- DGM 4350 Information Workflow Management 3.0

Complete 11 or more credits from the following:
- ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
- DGM 1063 Image Editing (2.0)
- FIN 1065 Personal Finance (3.0)
- LEGL 3000 Business Law (3.0)
- MGMT 2390 Effective Business Presentations (3.0)
- MGMT 3430 Human Resource Management (3.0)
- MGMT 3890 Career Preparation (2.0)

Note: A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation.

Emphasis in Peace and Justice Studies 18 Credits

Emphasis Requirements: 3 Credits

- PJST 3000 Introduction to Peace and Justice Studies 3.0

Elective Requirements: 15 Credits

Complete 15 credits, at least one course from each of the following areas (additional advisor approved courses may be available):
- Peace, War, and Justice:
  - PJST 3020 The Ethics of War and Peace (3.0)
  - HIST 430G Violence and Social Conflict in Latin America (3.0)
  - HIST 3850 The Struggle for Self-determination—American Indians 1891-present (3.0)
- Human Rights:
  - HIST 4130 Anti-Semitism and the Holocaust (3.0)
  - HIST 3520 The United States and Vietnam—1945 to Present (3.0)
- Crimes Against Humanity:
  - HIST 3840 History of South Africa (3.0)
  - HIST 3430 Middle East History—1914-Present (3.0)
- Peace Education:
  - HIST 4140 Genocide in the Twentieth Century (3.0)
  - POLS 3100 Survey of International Terrorism (3.0)

Justice:
- CJ 4160 Constitutional Rights and Responsibilities (3.0)
- CJ 4200 Ethical Issues in Criminal Justice (3.0)
- CJ 4700 Comparative Criminal Justice Systems (3.0)
- HIST 3800 Environmental History of the United States (3.0)
- HIST 4600 Contemporary American Political and Social Issues (3.0)
- POLS 3500 International Relations of the Middle East (3.0)
- POLS 3600 International Relations of East Asia (3.0)
- POLS 359G American Indian Law and Tribal Government (3.0)
- SOC 3460 Environmental Sociology (3.0)
- SOC 3202 Race and Minority Relations (3.0)
- SOC 3460 Political Sociology (3.0)
- SOC 3700 Social Inequality (3.0)

Mediation/Conflict Resolution:
- LEGL 3410 Mediation and Negotiation (3.0)
- LEGL 4100 Advanced Mediation (3.0)
### Integrated Studies

- **LEGL 3150** Survey of Dispute Resolution (3.0)
- **LEGL 4200** Domestic Mediation (3.0)
- **Philosophy and Religion:**
  - **PHIL 3530** Environmental Ethics (3.0)
  - **PHIL 3540** Christian Ethics (3.0)
  - **PHIL 3700** Social and Political Philosophy (3.0)
  - **PHIL 3950** Philosophical Issues in Feminism (3.0)
- **Clinical Research (3.0)**
- **19th Century Photographic Introduction to Political Science**
- **PHIL 2110** General Psychology** (3.0)
- **ART 2700** American Indian Law and Tribal Approaches to Religious Studies
- **HIST 151G** Jewish History (3.0)
- **ANTH 3400** Philosophy of Religion
- **PHIL 3670** 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 3740** Literature of the Sacred (3.0)
- **ENGL 3780** Mormon Literature (3.0)
- **HIST 4100** Jewish History (3.0)
- **RLST 3540** Christian Ethics (3.0)
- **RLST 3610** Introduction to Christian Theology (3.0)
- **SOC 3400** Sociology of Religion (3.0)
- **Emphasis Requirements: 18 Credits**

### Emphasis in Philosophy

**Emphasis Requirements: 18 Credits**

Complete the following:
- **PHIL 1250** Logical Thinking and Philosophical Writing (3.0)
- **PHIL 1600** Introduction to Philosophy (3.0)
- **PHIL 1610** Introduction to Western Religions (3.0)
- **PHIL 1620** Introduction to Eastern Religions (3.0)
- **PHIL 2110** Ancient Greek Philosophy (3.0)
- **PHIL 2130** Medieval Philosophy (3.0)
- **PHIL 2150** Early Modern Philosophy (3.0)
- **PHIL 290R** Independent Study (1.0)
- **PHIL 295R** Directed Readings (1.0)

Complete 12 credits from any 3000 or 4000 level PHIL 12.0 courses

### Emphasis in Photography

**Emphasis Requirements: 21 Credits**

- **ART 1050** Photography I (3.0)
- **ART 2701** Photography II (3.0)
- **ART 2710** Documentary Photography (3.0)
- **ART 2720** Color Photography (3.0)
- **Complete 9 credits from the following courses:**
  - **ART 371R** 19th Century Photographic Processes (may be repeated once) (3.0)
  - **ART 474R** Photographic Illustration (3.0)
  - **ART 474R** Advanced Photo Studies (3.0)

### Emphasis in Psychology

**Emphasis Requirements: 19 Credits**

**Prerequisite - Complete the following course:**
- **PSY 1010** General Psychology** (3.0)

Complete the following courses:
- **PSY 2250** Psychology of Interpersonal Relationships (3.0)
- or **PSY 2400** Positive Psychology (3.0)
- **BESC 3010** Statistics for the Behavioral Sciences (4.0)
- **BESC 3020** Research Methods for the Behavioral Sciences (3.0)

**Advanced Research - 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 6 additional credits in Psychology (6.0)

Footnotes:
- **PSY 1010** is an introductory course and pre-requisite which may not be used in the 19 hours required for these Integrated Studies Emphases.

### Emphasis in Religious Studies

**Emphasis Requirements: 18 Credits**

**Prerequisites (see advisor):**
- **PHIL 1610** Introduction to Western Religions (3.0)
- **PHIL 1620** Introduction to Eastern Religions (3.0)
- or **ANTH 3450** Shamanism and Indigenous Religion (3.0)

Complete the following:
- **PHIL 3670** Philosophy of Religion (3.0)
- **RLST 3650** Approaches to Religious Studies (3.0)
- **RLST 366R** Issues in Religious Studies (3.0)

Complete 9 credits from the following:
- **ANTH 3400** Myth Magic and Religion (3.0)
- **ANTH 3450** Shamanism and Indigenous Religion (3.0)

### Emphasis in Social Sciences

**Emphasis Requirements: 18 Credits**

Complete 3 credits from the following courses:
- **ARCH 1100** Introduction to Archaeology (3.0)
- **ECON 1010** Economics as a Social Science (3.0)
- **HIST 1740** US Economic History (3.0)
- **GEOG 1300** Survey of World Geography (3.0)
- **GEOG 2100** Geography of the United States (3.0)
- **GEOG 3010** Economic Geography (3.0)
- **GEOG 3430** Political Geography (3.0)
- **GEOG 3630** Introduction to Geographic Information Systems (4.0)
- **GEOG 3800** Environmental History of the United States (3.0)

Complete 3 credits from the following courses:
- **POLS 1000** American Heritage (3.0)
- **POLIS 1010** Introduction to Political Science (3.0)
- **POLIS 1020** Political Ideologies (3.0)
- **POLIS 1100** American National Government (3.0)
- **POLIS 1440** Introduction to Middle East Politics (3.0)
- **POLIS 2200** Introduction to Comparative Politics (3.0)
- **POLIS 2100** Introduction to International Relations (3.0)
- **POLIS 1800** Our Global Community (3.0)
- **POLIS 2120** Political Parties (3.0)
- **POLIS 230G** Introduction to Political Theory (3.0)
- **POLIS 3000** Political Analysis (3.0)
- **POLIS 3030** State and Local Government (3.0)
- **POLIS 3100** Survey of International Terrorism (3.0)
- **POLIS 3150** US Presidency (3.0)
- **POLIS 3200** US Congress (3.0)
- **POLIS 3500** International Relations of the Middle East (3.0)
- **POLIS 356G** Comparative Politics of Central Asia (3.0)
- **POLIS 359G** American Indian Law and Tribal Government (3.0)
- **POLIS 3600** International Relations of East Asia (3.0)
- **POLIS 480R** Internship (2.0)

Complete at least 3 credits from the following courses:
- **HIST 1500** World History to 1500 (3.0)
- **HIST 151G** World History from 1500 to the Present (3.0)
- **HIST 1700** American Civilization (3.0)
- **HIST 2700** US History to 1877 (3.0)
- **HIST 2710** US History since 1877 (3.0)

Complete an additional 9 credits from any GEDG, HIST, or POLS course 3000 or higher (see advisor).

### Emphasis in Sociology

**Emphasis Requirements: 19 Credits**

**Prerequisite - Complete the following course:**
- **SOC 1010** Introduction to Sociology** (3.0)

Complete the following:
- **SOC 3000** Contemporary Social Theory (3.0)
- or **SOC 3310** Classical Social Theory (3.0)
- **BESC 3010** Statistics for the Behavioral Sciences* (3.0)
- **BESC 3020** Research Methods for the Behavioral Sciences (3.0)

**Advanced Research - Complete one of the following courses:**
- **SOC 4020** Survey Research Design (3.0)
- **BESC 4040** Applied Behavioral Science Research (3.0)

Complete 6 additional credits in Sociology (SOC). 6.0

Credits may be lower or upper division.

### Emphasis in Spanish

**Emphasis Requirements: 18 Credits**

**Emphasis Requirements:**
- **THEA 1513** Stagecraft for Stage and Screen I (3.0)
- **THEA 1713** Script and Text Analysis (3.0)
- **THEA 3723** Theatre History and Literature I (3.0)

**Elective Requirements: 6 Credits**

Complete six credits from 3000 or higher level THEA (6.0 courses)

### Emphasis in Theatre Arts

**Emphasis Requirements: 18 Credits**

**Emphasis Requirements:**
- **THEA 1513** Fundamentals of Acting I (3.0)
- **THEA 3723** Theatre History and Literature I (3.0)

**Elective Requirements: 6 Credits**

Complete six credits from 3000 or higher level THEA (6.0 courses)

### Emphasis in Technology Management

**Emphasis Requirements: 18 Credits**

**Emphasis Requirements:**
- Completion of an AA or AS degree with at least 25 credits in a technical specialty.

Complete 18 credits from the following:
- **TECH 3000** Introduction to Technology Management (3.0)
- **TECH 3010** Creativity Innovation and Change Management (3.0)
- **TECH 301R** Technology Lecture Series (1.0)
- **TECH 3400** Project Management (3.0)
- **TECH 3700** Materials Management (3.0)
- **TECH 3850** Quality Assurance in Technology (3.0)
- **TECH 405G** Global Ethical and Professional Issues in Technology (3.0)
- **TECH 4000** Reliability Engineering and Safety (3.0)
- **TECH 4200** Technology Marketing and Distribution (3.0)
- **TECH 4400** Advanced Project Management (3.0)
- **TECH 4420** Organization Information Technologies (3.0)
- **TECH 4820** Current Topics in Technology Management (2.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- **IS**, Integrated Studies
Interdisciplinary Studies Program

Committee Chair: Jans B. Wager
Office: LA 114J
Telephone: 801-863-8340
Fax: 801-863-6255
E-mail: jans.wagen@uvu.edu

Administrative Support: Mark Olson
Office: LI 508
Telephone: 801-863-5888
E-mail:olsonma@uvu.edu

Program Website: www.uvu.edu/idst

Faculty Committee:

Professor
David Knowlton

Associate Professor
Jan Wellington
David Wilson

Assistant Professor
Haagen Klaus

Lecturer
Ken Sekaquaptewa

Advisor: John Mcfarlane
Office: LA 220
Telephone: 801-863-6716
Email: john.mcfarlane@uvu.edu

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. 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 a wide variety of majors by making available an additional course of study that will help them to 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. Thus 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.

Minor in American Indian Studies 18 CREDITS

Matriculation Requirements: 1 Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 18 Credits

Complete both of the following: 6.0

• ANTH 180G Introduction to American Indian Studies (3.0)
or HIST 180G Introduction to American Indian Studies (3.0)

• HIST 400R History Practicum (3.0)

Complete four of the following: 12.0

• ANTH 3300 Development and Rural Societies (3.0)
• ANTH 3450 Shamanism and Indigenous Religion (3.0)
• ENGL 3570 Native American Literature (3.0)
• HIST 372G Indians of Utah (3.0)
• HIST 381G Precolumbian 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)
or HIST 4600 American Indian Political and Social Issues (3.0)

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.

AMERICAN INDIAN STUDIES
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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. Thus 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.

Minor in American Studies 21 CREDITS

Matriculation Requirements: 1 Completion of 30 hours of credit.
2 Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 12 Credits

• AMST 2000 Introduction to American Studies (3.0)
• AMST 300R Topics in American Studies (3 credits, must be repeated) (3.0)
• IDST 4900 Interdisciplinary Studies Capstone (3.0)

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.

Graduation Requirements: 1 Overall GPA of 2.0 or above.
2 Residency hours—minimum of 12 credit hours through course attendance at UVU.
Interdisciplinary Studies Program

**BA/BS in Integrated Studies 123 Credits**

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

**Emphasis in American Studies 18 Credits**

<table>
<thead>
<tr>
<th>Elective Requirements: 9 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
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</tbody>
</table>

**BA/BS in Integrated Studies 123 Credits**

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

**Emphasis in Cinema Studies 18 Credits**

<table>
<thead>
<tr>
<th>Elective Requirements: 9 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>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).</td>
</tr>
</tbody>
</table>

**Graduation Requirements:**

1. Overall GPA of 2.0 (C) or above.
2. Residency hours—minimum of 12 credit hours through course attendance at UVU.

**BA/BS in Integrated Studies 123 Credits**

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

**Emphasis in Classical Studies 18 Credits**

<table>
<thead>
<tr>
<th>Elective Requirements: 9 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>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).</td>
</tr>
</tbody>
</table>

**Graduation Requirements:**

1. Overall GPA of 2.0 (C) or above.
2. Residency hours—minimum of 12 credit hours through course attendance at UVU.
Minor in Deaf Studies 21 CREDITS

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: 9.0
- ASL 3050 Advanced American Sign Language (3.0)
and ASL 3530 ASL Literature (3.0)
Complete additional 12 credits of upper-division ASL 12.0
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.

Environmental Studies

Coordinator: Daniel A. Stephen
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Telephone: 801-863-8584
E-mail: daniel.stephen@uvu.edu
Website: www.uvu.edu/environmentalstudies/

Faculty Committee:
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Laura Hamblin
Daniel Horns
David Richard Keller
Paul Taylor
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Phil Gordon
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Environmental Studies is an interdisciplinary field that explores the complex links between human culture and the natural world. The Environmental Studies 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.

A Minor in Environmental Studies is useful for students seeking academic or professional paths in public policy on the environment. Hundreds of thousands of environmental professionals currently work for government agencies at local, state, and federal levels. Every year, tens of thousands of jobs become available in both the public and private sectors. An Integrated Studies emphasis in Environmental Studies is also available; see Integrated Studies for details.

Minor in Environmental Studies 18 CREDITS

Matriculation Requirements:
1. Completion of 30 hours of credit
2. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 9 Credits
- ENST 3000 Introduction to Environmental Studies 3.0

Interdisciplinary Studies Program

Elective Requirements: 9 Credits
Electives (15 credit hours). Complete 5 of the following 15.0 courses of 4 different from at least 2 different Colleges/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 Psychology (3.0)
- PSY 3520 Environmental Psychology (3.0)
- ENVT 3630 Introduction to Geographic Information Systems (4.0)
- or GEOG 3630 Introduction to Geographic Information Systems (4.0)
- or GEOG 3010 Economic Geography (3.0)
- or GEOG 3800 Environmental History of the United States (3.0)
- or HIST 3800 Environmental History of the United States (3.0)
- or HIST 3260 History of Utah (3.0)
- or HIST 4330 Machines in the Making of History (3.0)
- or PHIL 3530 Environmental Ethics (3.0)

Woodbury School of Business
- ECON 3045 Environmental Economics (3.0)

Any other advisor approved courses

BA/BS in Integrated Studies 123 CREDITS
The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Environmental Studies 18 Credits

Elective Requirements: 3 Credits
- ENST 3000 Introduction to Environmental Studies 3.0

Electives (15 credit hours). Complete 5 of the following 15.0 courses of 4 different prefixes from at least 2 different Colleges/Schools:
College of Humanities and Social Sciences
- ANTH 3150 Culture Ecology and Health (3.0)
- HLTH 3150 Culture Ecology and Health (3.0)
- BIOL 1010 General Biology (3.0)
- BIOL 2500 Environmental Biology (3.0)
- BIOL 3800 Conservation Biology (3.0)
- BIOL 4500 Principles of Evolution (3.0)
- ENST 3820 Environmental Law (3.0)
- ENVT 3630 Introduction to Geographic Information Systems (4.0)
- or GEOG 3630 Introduction to Geographic Information Systems (4.0)
- or ENV 3850 Environmental Policy (3.0)
- or GEO 1220 Historical Geology (3.0)
- or GEO 3210 Environmental Geology (4.0)
- or MET 3101 Climate and the Earth System (3.0)

Any other advisor approved courses
Interdisciplinary Studies Program

- 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)
- or HLTH 3150 Culture Ecology and Health (3.0)
- BIOL 1010 General Biology (3.0)
- BIOL 2500 Environmental Biology (3.0)
- BIOL 3700 General Ecology (3.0)
- BIOL 3800 Conservation Biology (3.0)
- BIOL 4510 Principles of Evolution (3.0)
- ENVT 3280 Environmental Law (3.0)
- ENVT 3630 Introduction to Geographic Information Systems (4.0)
- or GEOG 3630 Introduction to Geographic Information Systems (4.0)
- ENVT 3850 Environmental Policy (3.0)
- GEO 1220 Historical Geology (3.0)
- GEO 3210 Environmental Geology (4.0)
- METO 3100 Climate and the Earth System (3.0)
- Any other advisor-approved courses

Woodbury School of Business
- ECON 3040 Environmental Economics (3.0)
- Any other advisor-approved courses

GENDER STUDIES
Coordinator: Shannon M. Mussett
Office: LA 121
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Website: www.uvu.edu/genderstudies

Faculty Committee:

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Joylin Namie
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Jeff Tortina

Assistant Professor
Numsiri Kunakemakorn

Advisor: Lynne Hetzel
Office: LI 507
Telephone: 801-863-8455
E-mail: is_advising@uvu.edu

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. As an interdisciplinary program, the Gender Studies minor encourages students to examine gender from multiple academic perspectives. As such, the minor broadens students’ understanding of their chosen major and career path while facilitating the recognition of gender dynamics in their own lives.

Minor in Gender Studies 18 CREDITS
Matriculation Requirements:
1. Completion of 30 hours of credit
2. Admitted to a bachelor degree program at UVU

Discipline Core Requirements: 9 Credits

- ENGL 2730 Introduction to Gender Studies 3.0
- ENGL 473R Topics in Gender Studies 3.0

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.

- ANTH 3130 Reproduction and Biomedicine (3.0)
- ECFS 3320 Gender Perspectives in Education (3.0)
- ENGL 3710 Literature by Women (3.0)
- HIST 320G Women in American History to 1870 (3.0)
- HIST 321G Women in American History since 1870 (3.0)
- HLTH 2800 Human Sexuality (3.0)
- HLTH 3240 Women’s Health Issues (3.0)
- LEGL 3330 Family Law (3.0)
- PES 1405 Women’s Safety Awareness and Self-Defense (1.0)
- PHIL 3150 Philosophical Issues in Feminism (3.0)
- PHIL 3160 Gender Values Knowledge and Reality (3.0)
- PHIL 3450 Philosophy of Childhood (3.0)
- PSY 2800 Human Sexuality (3.0)
- PSY 3100 Psychology of Gender (3.0)
- SOC 3270 Gender Roles (3.0)
- ENGL 217G Race Class and Gender in US Cinema (3.0)
- IDST 4900 Interdisciplinary Studies Capstone (3.0)
- IDST 281R Interdisciplinary Studies Internship (1.0)
- IDST 481R Interdisciplinary Studies Internship (1.0)

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.

Peace and Justice Studies at UVU takes an interdisciplinary approach to the study of phenomena empirically and theoretically associated with violence/nonviolence and injustice/justice. Four areas of concentration are offered: 1) Peace, 2) Justice, 3) Mediation and Conflict Resolution, 4) Philosophy and Religion. Although organized into concentrations, the curricula must also be approached in a way that disallows the student from studying within one concentration only (note the accent on interdisciplinary). Peace and nonviolence are investigated at multiple levels from the realm of the personal and familial, to international structures, conventions, institutions, and history. Likewise, justice and injustice are integrated across the same range of inquiry. Because matters of peace and justice are of perennial and perhaps growing-concern, students who earn a Peace and 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.

Minor in Peace and Justice Studies 21 CREDITS
Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU

Discipline Core Requirements: 6 Credits

- JUST 4900 Peace and Justice Studies Capstone 3.0
- JUST 3000 Introduction to Peace and Justice Studies 3.0

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:

- JUST 3020 The Ethics of War and Peace (3.0)
- HIST 430G Violence and Social Conflict in Latin America (3.0)
- HIST 385G The Struggle for Self-determination—American Indians 1931-presents (3.0)
- HIST 4130 Anti-Semitism and the Holocaust (3.0)
- HIST 3520 The United States and Vietnam—1945 to Present (3.0)
- HIST 3540 History of South Africa (3.0)
- HIST 3430 Middle East History—1914-Present (3.0)
- HIST 4140 Genocide in the Twentieth Century (3.0)
- POLS 3100 Survey of International Terrorism (3.0)

Justice:

- CJ 4160 Constitutional Rights and Responsibilities (3.0)
- CJ 4700 Ethical Issues in Criminal Justice (3.0)
- CJ 4700 Comparative Criminal Justice Systems (3.0)
- HIST 3800 Environmental History of the United States (3.0)
- HIST 4600 Contemporary American Indian Political and Social Issues (3.0)
- POLS 3500 International Relations of the Middle East (3.0)
- POLS 3600 International Relations of East Asia (3.0)
- POLS 359G American Indian Law and Tribal Government (3.0)
- SOC 3450 Environmental Sociology (3.0)
RELIGIOUS STUDIES

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Telephone: 801-863-8759  
E-mail: brian.birch@uvu.edu  
Website: www.uvu.edu/religiousstudies

Faculty Committee:
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Kenneth White

Assistant Professor  
Grace Chou  
Gae Lynn Henderson

Senior Lecturer  
Alex Stecker

Lecturer  
Lynn England  
Boyd Petersen

Advisor: Lynne Hetzel  
Office: LI 507  
Telephone: 801-863-8455  
E-mail: is_advising@uvu.edu

The Religious Studies Program at Utah Valley University fosters and facilitates an interdisciplinary approach to the academic study of religion. Due to its influential role at the local, national, and international level, 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. A Religious Studies minor will complement a variety of majors and contribute to a well-rounded educational experience by exposing students to multiple disciplines.

Minor in Religious Studies 21 CREDITS

Matriculation Requirements:
1. Completion of 30 hours of credit.
2. Admission to a bachelor degree program at UVU

Discipline Core Requirements: 12 Credits
- PHIL 1610 Introduction to Western Religions (3.0)  
- OR PHIL 1620 Introduction to Eastern Religions (3.0)  
- OR ANTH 3450 Shamanism and Indigenous Religion (3.0)
- RLST 3650 Approaches to Religious Studies (3.0)
- RLST 366R Issues in Religious Studies (3.0)
- PHIL 3540 Philosophy of Religion (3.0)
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, it is required that the experience:

- 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 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 http://www.uvu.edu/internships/students/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.

**Center for Career Services and Student Employment**

The University is committed to assisting students in making intelligent and informed career choices. The Career Services and Student Employment Center can assist students in investigating internship opportunities by providing employer leads and information, helping students construct resumes, and assisting with interview preparation. Once a student has secured an internship and met with their Academic Internship Coordinator, there is a required Online Internship Orientation which can be accessed from the internship website, http://www.uvu.edu/internships/students/orientation.html.

**International Internships**

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, working on substantive projects, and learning how to work with a team facing real-world deadlines. Students interested in exploring opportunities for international internships should contact the International Center at http://www.uvu.edu/international/isp/internships/index.html (801.863.8709).

Students participating in international internships must meet with the International Center to obtain insurance, cultural recommendations and security clearance.
involve domestic or international non-English speaking communities. The fact that business and government are more and more global enterprises, coupled with the fact that the U.S. citizenry is less and less monolingual English, the demand for language expertise is increasing throughout all facets of social interaction, particularly, but not limited to industry, commerce, and education.

PROGRAMS
The Department offers Bachelor of Arts degrees in the following areas: Spanish, Spanish Education, Deaf Studies (General Deaf Studies Emphasis or Interpreting Emphasis), and ASL and Deaf Studies Education; minors in Spanish, French, Deaf Studies (see Interdisciplinary Studies), and Languages (combining advanced study of two languages); and Integrated Studies Emphases in Spanish, ASL, French, and German.

Besides degree programs, the Department offers beginning (1000 level) and intermediate (2000 level) courses in American Sign Language, Chinese, French, German, Japanese, Portuguese, Russian, and Spanish, as well as upper division (3000-4000 level) language courses in Chinese, Japanese, Portuguese, and Russian.

Language courses numbered 202G fulfill Humanities Distribution and Global/Intercultural requirements.

Some other Language courses fulfill the Global/Intercultural graduation requirement.

Language courses fulfill language requirements for any BA or AA degree.

BA in Deaf Studies  123 CREDITS

General Education Requirements:  35 Credits

- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2010 Intermediate Writing—Humanities or Social Sciences (3.0) or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

Choose one of the following:

- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Choose 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)
- 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 (3.0)
- HLTH 1100 Personal Health and Wellness (2.0) or PES 1097 Fitness for Life (2.0)

Distribution Courses

- Humanities Distribution (3.0)
- ANTH 101G Social/Cultural Anthropology (3.0)
- Fine Arts Distribution (3.0)
- Biology (3.0)
- Physical Science (3.0)
- Biology or Physical Science (3.0)

Discipline Core Requirements:  31 Credits

- ASL 2040 ASL Numbers *
- ASL 3050 Advanced American Sign Language **
- ASL 3310 Interpreting I *
- ASL 3510 Deaf Culture to 1817 (3.0)
- ASL 3520 Deaf Culture 1817 to 1970 (3.0)
- ASL 3530 Deaf Culture from 1970 (3.0)

** ASL 3610 ASL Literature (3.0)
** ASL 4410 ASL Linguistics (3.0)
** Any other 4000-level class with an ASL prefix (3.0)
** Complete at least 6 credits from the following courses:
  - ANTH 107G Multicultural Societies (3.0)
  - SOC 1010 Introduction to Sociology (3.0)
  - SOC 3000 Contemporary Social Theory (3.0)
  - SOC 320G Race and Minority Relations (3.0)
  - SOC 3560 Sociology of Deviance (3.0)
  - SOC 3700 Social Inequality (3.0)
  - SOC 4400 Social Change (3.0)
  - EDEC 3300 Multicultural Understanding (2.0)
  - ANTH 3500 Discourse Semiotics and Representation (3.0)

Emphasis

Complete one of the following:

- General Deaf Studies 57.0
- Interpreting 57.0

Graduation Requirements:

- 123 credit hours (minimum of 40 upper division)
- Minimum cumulative G.P.A. of 2.0, with no grade lower than a “C” for all core and ASL elective requirements.
- Completion of General Education requirements.
- Completion of Deaf Studies major core and elective requirements.
- Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.

Note: Students should frequently review their program with faculty or department advisor.

Footnotes:

- 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.

Emphasis in General Deaf Studies  57.0 Credits

Emphasis Requirements:  15 Credits

Complete the following courses:

- LANG 3000 Language and Culture (3.0)
- ASL 4450 Deaf-World Discourse (3.0)
- ASL 4560 Deafness and the Law (3.0)
- ASL 4550 Multicultural Issues In the Deaf-World (3.0)
- ASL 4800 Deaf Culture Studies (3.0)

Emphasis Elective Requirements:  42 Credits

DEAF STUDIES ELECTIVES  18.0

Complete 18 credits from among the following courses:

- LANG 481R 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)
- Any 3000- or 4000-level ASL & Deaf Studies courses that are not part of the core and are not emphasis requirements.
- LANG 3010 Introduction to Linguistics (3.0)

CULTURE ELECTIVES  3.0

Complete at least 3 credits from the following courses:

- ANTH 107G Multicultural Societies (3.0)
- SOC 1010 Introduction to Sociology (3.0)
- SOC 3000 Contemporary Social Theory (3.0)
- SOC 320G Race and Minority Relations (3.0)
- SOC 3560 Sociology of Deviance (3.0)
- SOC 3700 Social Inequality (3.0)
- SOC 4400 Social Change (3.0)
- EDEC 3300 Multicultural Understanding (2.0)
- ANTH 3500 Discourse Semiotics and Representation (3.0)

Complete 21 credits of any 1000 level or higher coursework.

Footnotes:

- Students are encouraged to apply these credits toward the completion of a minor (in something other than Deaf Studies).

Emphasis in Interpreting  57.0 Credits

Emphasis Requirements:  23 Credits

Complete the following courses:

- ASL 4370 Ethics for Interpreters (3.0)
- LANG 481R Language Internship (1.0) (2.0)
<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>FREN 3040</td>
<td>Introduction to Literary Genres in French (3.0)</td>
</tr>
<tr>
<td>FREN 3200</td>
<td>Business French (3.0)</td>
</tr>
<tr>
<td>FREN 3510</td>
<td>Culture and Civilization to 1700 (3.0)</td>
</tr>
<tr>
<td>FREN 3520</td>
<td>Culture and Civilization from 1700 to 1900 (3.0)</td>
</tr>
<tr>
<td>FREN 3610</td>
<td>French Literature to 1700 (3.0)</td>
</tr>
<tr>
<td>FREN 3620</td>
<td>French Literature from 1700 to 1900 (3.0)</td>
</tr>
<tr>
<td>FREN 409R</td>
<td>Special Topics in French (3.0)</td>
</tr>
<tr>
<td>LANC 3000</td>
<td>Language and Culture (3.0)</td>
</tr>
<tr>
<td>LANC 4200</td>
<td>Methods of Teaching a Foreign Language (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 Languages (1.0)</td>
</tr>
</tbody>
</table>

### Graduation Requirements:
1. Completion of Baccalaureate Degree.
2. Any grade below a "C" (2.0) in a French Minor course will not be accepted.

### Minor in Languages 20 Credits

**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) 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:**
- Complete the following two requirements:
  1. **Language 1**
     - A 3.0 GPA in any foreign language
     - 6 credits numbered higher than 3050 in the same language
  2. **Language 2**
     - 11 credits in courses numbered 2000 or higher
     - A second foreign language.

**Graduation Requirements:**
1. Completion of Baccalaureate Degree.
2. Any grade below a "C" (2.0) in a Languages Minor course will not be accepted.

### Minor in Spanish 18 Credits

**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. Be admitted to a bachelor degree program at UVU.

**Discipline Core Requirements:**
- Complete 18 credits of any courses numbered higher than 2010, and 202G.

**Elective Requirements:**
Complete 12 credits of any upper-division SPAN or LANG courses not previously taken.

### BA/BS in Integrated Studies 123 Credits

**Emphasis in French 18 Credits**

**Emphasis Requirements:**
- Choose 18 credits from the following:
  1. FREN 3030 French Composition and Conversation (3.0)
  2. FREN 3040 Introduction to Literary Genres in French (3.0)
  3. SPAN 3050 Advanced French I (3.0)
  4. SPAN 3200 Business French (3.0)
  5. SPAN 3510 Culture and Civilization to 1700 (3.0)
  6. SPAN 3520 Culture and Civilization from 1700 to 1900 (3.0)
  7. SPAN 409R Special Topics in French and Spanish (3.0)

**Footnotes:**
- *SPAN 3040 or 3050 is the prerequisite to all higher-numbered courses listed in Discipline Core Requirements.

**Emphasis in German 18 Credits**

**Emphasis Requirements:**
- Choose 18 credits from the following:
  1. GER 1010 Beginning German I (4.0)
  2. GER 1020 Beginning German II (4.0)
  3. GER 2010 Intermediate German I (4.0)
  4. GER 202G Intermediate German II (4.0)

**Emphasis in Spanish 18 Credits**

**Emphasis Requirements:**
- Choose 18 credits of SPAN courses numbered 2000 or higher.

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### Notes:
- Students should review the program with their advisor.
- Any grade below a "C" (2.0) in a foreign language course will not be accepted toward the major.
- Students must maintain an overall GPA of 2.75 or higher and meet all other graduation requirements stipulated in the college catalog.
- Post-BAS/BS students must take 30 hours of education courses, fulfill the Math 1050 requirement, and meet all stipulated deadlines.

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**Minor in French 18 Credits**

**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:**
- Complete 3 credits.

**Elective Requirements:**
- Complete 15 credits from among the following:
  1. FREN 3030 French Composition and Conversation (3.0)
  2. FREN 3050 Advanced French (3.0)
Languages
- ASL, American Sign Language
- CHIN, Chinese
- FREN, French
- GER, German
- JPNS Japanese
- LANG, Languages
- PORT, Portuguese
- RUS, Russian
- SPAN, Spanish
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.

The Minor is not approved by the American Bar Association and is not intended to prepare students to work as Paralegals.

**PROGRAMS**

Legal Studies students may receive a Certificate of Proficiency in Legal Studies, Associate of Applied Science in Legal Studies, an Associate in Science in Legal Studies, or a Bachelor of Science in Legal Studies.

**ADMISSION REQUIREMENTS**

In addition to applying for admission to Utah Valley University, Legal Studies students must meet the following admission requirements:

1. 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.
2. 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.

Program objectives for legal studies majors:

1. Every student must be competent in legal research, document production, and law practice processes.
2. Advanced technology is common in most law offices; and legal professionals are required to be skilled beyond basic computer literacy, and be able to use law-specific software and internet applications.
3. Students are able to select advanced classes in legal specialty areas that appeal to them.
4. Students are required to have actual work experience as part of their academic training.
5. Students should demonstrate high ethical standards and conduct.

**Legal Studies**

**Faculty:**

- **Professor:** Hugh Rode
- **Associate Professor:** Carolyn Howard
- **Assistant Professor:** Jill Jasperson
- **Lecturer:** Jason Wilcox

Woodbury School of Business
Advisement Center
Office: WB 257
Telephone: 801-863-8032

Legal Studies Advisory Committee:

Lesleigh Ashby, Public Sector Paralegal, Utah State Courts; Fourth District Juvenile Court; Steve Avrett, Judge Pro Tempore and J. Reuben Clark Law School Librarian; Aaron Bartholomew, Judge Pro Tempore, Practicing Attorney, Assistant Professor, Chair, Legal Studies Department; Kim Bruce, Private Sector Paralegal, Workman Nydegger; Tavya Bushey, Alumna Representative, Private Sector Paralegal, Bartholomew & Associates; Dana Faceymyer, Practicing Lawyer, Law Offices of Dana Faceymyer; Tamara Fackrell, Practicing Lawyer, Master Mediator; Val Hale, UUV Administrator; UUV VP of Advancement; Laurie Hart, Practicing Lawyer, Callister, Nebeker & McCullough; Randy Kester, Practicing Lawyer, Young, Kester & Petro; Kiersty Loughmiller, Law Clerk/Bailiff - Utah State Courts; Alex Ludlow, Practicing Lawyer; Deputy Utah County Attorney; Raquel Painter, Private Sector Paralegal, Law Offices of Dana Faceymyer; Daniel Price, Private Sector Paralegal; Fillmore Spencer LLC; Tom Seiler, Practicing Lawyer, Robinson, Seiler & Associates, Commissioner of Utah Bar Association; Brooke Sessions, Practicing Lawyer, Private Practice/Judges Pro Tempro; Neil Skousen, Practicing Lawyer; Private Practice; Judge James Taylor, District Court Judge, Fourth District Court; Mayor Hunt Willoughby, Mayor, Alpine City - Community Representative

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Office: WB 128b
Telephone: 801-863-8260
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**CAREER OPPORTUNITIES**

For those trained as legal professionals, many

**AS Pre Major in Legal Studies**

**General Education Requirements:** 35 Credits

- **ENGL 1010** Introduction to Writing 3.0
- **ENGL 2010** Intermediate Writing--Humanities/ Social Sciences 3.0

Complete one of the following:

- **MATH 1040** Introduction to Statistics (3.0)
- **MATH 1050** College Algebra (4.0)

Complete one of the following:

- **HIST 2710** US History since 1877 (3.0)
- **HIST 2720** US History before 1877 (3.0)
- **HIST 1700** American Civilization (3.0)
- **HIST 1740** US Economic History (3.0)
- **POLS 1000** American Heritage (3.0)
- **POLS 1100** International Relations (3.0)

Complete the following:

- **PHIL 1050** 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:** 25 Credits

- **LEGL 1000** Introduction to American Law 3.0
- **LEGL 1110** Civil Litigation 3.0
- **LEGL 1330** Criminal Law and Procedure 3.0
- **LEGL 2350** Legal Research II 3.0
- **LEGL 2330** Technology in Law Practice 3.0
- **LEGL 3100** Legal Environment 3.0

**Graduation Requirements:**

1. Completion of a minimum of 64 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 through 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.

**AAS in Legal Studies**

**General Education Requirements:** 18 Credits

- **ENGL 1010** Introduction to Writing 3.0
- **MAT 1010** Intermediate Algebra 4.0
- **PHIL 2050** Ethics and Values 3.0

Complete one approved Social/Behavioral Science GE course.

Complete one approved Biology/Physical Science GE course.

Complete one of the following:

- **HLTH 1100** Personal Health and Wellness (2.0)
- **PES 1097** Fitness for Life (2.0)

**Discipline Core Requirements:** 40 Credits

- **LEGL 1000** Introduction to American Law 3.0
- **LEGL 1110** Civil Litigation 4.0
- **LEGL 1330** Criminal Law and Procedure 3.0
- **DMG 2010** Business Computer Proficiency 3.0
- **LEGL 2350** Legal Research II 3.0
- **LEGL 2330** Technology in Law Practice 3.0
- **LEGL 2350** Evidence 3.0
- **LEGL 3000** Business Law 3.0
- **LEGL 3190** Legal Environment 3.0
- **LEGL 3320** Family Law 3.0
- **LEGL 481R** Internship (1.0) 3.0
- **LEGL 2830** Legal Studies Capstone 3.0
- **LEGL 4830** Legal Studies Capstone (3.0)

**Elective Requirements:** 6 Credits

- **Any LEGL course not already taken; must be completed with a grade of "C" or better** 6.0

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4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Note:
Approved by the American Bar Association.

### BS in Legal Studies 124 Credits

**Matriculation Requirements:**
Completion of LEGL 1000, LEGL 1110, LEGL 1220, and LEGL 2300 with C+ or higher.

**General Education Requirements:** 35 Credits
- **ENGL 1010** Introduction to Writing 3.0
- **ENGL 2010** Intermediate Writing--Humanities/Social Sciences 3.0 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)

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:** 70 Credits
All discipline core courses must be completed with minimum C+ grade or higher.
- **DGM 2010** Business Computer Proficiency 3.0
- **LEGL 1000** Introduction to American Law 3.0
- **LEGL 1110** Civil Litigation 4.0
- **LEGL 1220** Legal Research I 3.0
- **LEGL 1330** Criminal Law and Procedure 3.0
- **LEGL 2300** Legal Research II 3.0
- **LEGL 2330** Technology in Law Practice 3.0
- **LEGL 2350** Evidence 3.0
- **LEGL 3000** Business Law 3.0
- **LEGL 3190** Legal Environment 3.0
- **LEGL 3320** Family Law 3.0
- **LEGL 4130** Bankruptcy and Collections 3.0
- **LEGL 4150** Wills Trusts and Probate 3.0
- **LEGL 4160** Contract Law (3.0)
- **LEGL 418G** Bankruptcy and Collections (3.0)
- **LEGL 418R** Wills Trusts and Probate (3.0)
- **LEGL 4160** Contract Law (3.0)
- **LEGL 481R** Internship (1.0)
- **LEGL 4830** Legal Studies Capstone 3.0

**Area of Specialization:**
Any LEGL course (Pre-approved by Advisor; 6 credit hours must be upper-division courses; must be completed with a grade of “C+” or better)

**Elective Requirements:** 19 Credits
- **ELECTIVES** (Pre-approved by Advisor; 9 credits must be upper division courses)

**Graduation Requirements:**
1. Completion of a minimum of 124 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 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.

Note:
Approved by the American Bar Association.

### Minor in Legal Studies 24 Credits

**Certification in Legal Studies 25 Credits**

**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.

**Note:**
The Minor is not approved by the American Bar Association and is not intended to prepare students to work as Paralegals.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- LEGL, Legal Studies

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### Certification in Legal Studies 25 Credits

**Discipline Core Requirements:** 25 Credits
- **LEGL 1000** Introduction to American Law 3.0
- **LEGL 1110** Civil Litigation 4.0
- **LEGL 1220** Legal Research I 3.0
- **LEGL 2300** Legal Research II 3.0
- **LEGL 3000** Business Law 3.0
- **LEGL 3190** Legal Environment 3.0
- **DGM 2010** Business Computer Proficiency 3.0

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**Minor in Legal Studies** 24 Credits

**Matriculation Requirements:**
1. Admitted to a bachelor degree program at UVU.

**Discipline Core Requirements:** 15 Credits
- **LEGL 1000** Introduction to American Law 3.0
- **LEGL 1220** Legal Research I 3.0
- **LEGL 3190** Legal Environment 3.0
- **LEGL 2300** Legal Research II 3.0
- **LEGL 3000** Business Law 3.0

**Elective Requirements:** 9 Credits
Choose 9 credits from the following:
- **LEGL 3150** Survey of Dispute Resolution (3.0)
- **LEGL 3320** Family Law (3.0)
- **LEGL 3530** Employment and Labor Law (3.0)
- **LEGL 3650** Tort Law (3.0)
- **LEGL 4130** Bankruptcy and Collections (3.0)
- **LEGL 4150** Wills Trusts and Probate (3.0)
- **LEGL 4160** Contract Law (3.0)
Applied Science in Business Management, an Associate in Science with a pre-major in Business, or a Bachelor of Science Degree 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. (See the Woodbury School of Business section of the catalog for details on the AS degree.)

Certificate in Business Management 30 CREDITS

**Discipline Core Requirements:** 24 CREDITS

- **FIN 1060**  Personal Finance 3.0
- **MGMT 1010** Introduction to Business 3.0
- or **ENGL 1010**
- **MGMT 2200** Business Communication 3.0
- **MGMT 2390** Effective Business Presentations 3.0
- **ACC 1150** Fundamentals of Business Math 3.0
- **ACC 2010** Financial Accounting 3.0
- **FIN 281R** Co-Op Work Experience 3.0
- **ECON 1010** Economics as a Social Science 3.0

**Elective Requirements:** 6 CREDITS

- Choose six credits of business electives from the ACC, ECON, FIN, HM, 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.

**Footnotes:**

- Students will be required to complete DGM 2010 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.

**AS in Business Management 65 CREDITS**

**General Education Requirements:** 17 CREDITS

- **ENGL 1010** Introduction to Writing 3.0
- **ENGL 2010** Intermediate Writing—Humanities/ Social Sciences 3.0
- **ACC 2010** Financial Accounting 3.0
- **MGMT 2200** Business Communication 3.0
- **MGMT 2390** Effective Business Presentations 3.0
- **MGMT 3010** Principles of Management 3.0

**Discipline Core Requirements:** 30 CREDITS

- **ACC 2010** Financial Accounting 3.0
- **ACC 2030** Principles of Accounting 6.0
- **MGMT 1010** Introduction to Business 3.0
- **MGMT 2200** Business Communication 3.0
- **MGMT 2390** Effective Business Presentations 3.0
- **MGMT 3010** Principles of Management 3.0
- **MGMT 3600** Principles of Marketing 3.0
- **LEGL 3000** Business Law 3.0

**Elective Requirements:** 18 CREDITS

- Any ACC, ECON, FIN, HM, LEGL, MKTG, MGMT course 9.0
- General Education Electives (select from Distribution List) 9.0

**Graduation Requirements:**

1. Completion of a minimum of 65 semester credits.
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 of 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 UUV, 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.

FOOTNOTES:
** 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.

** Courses with an asterisk (*) cannot be taken until student is matriculated.

Emphasis in Entrepreneurship 27 Credits

Emphasis Requirements: 9 Credits
- MGMT 3170 Entrepreneurship 3.0
- MGMT 4300 Entrepreneurship Business Planning 3.0
- MGMT 4450 Entrepreneurship Enterprise Formation 3.0

Emphasis Elective Requirements: 18 Credits
Choose 18 electives from the following:
- FIN 3510 Financial Management 3.0
- MKTG 3650 Selling and Sales Management 3.0
- MKTG 3670 Advertising and Promotion 3.0
- MGMT 3430 Human Resource Management 3.0
- MGMT 4200 Opportunity Identification in Entrepreneurship 3.0
- MGMT 4210 Entrepreneurship Personal Development 3.0
- MGMT 4400 New Venture Financing 3.0

Emphasis in General Business 27 Credits

Emphasis Requirements: 27 Credits
- MGMT 3300 Survey of International Business 3.0
- MGMT 3430 Human Resource Management 3.0
- Complete 21 credits of pre-approved upper-division courses. See advisor for list of courses.

Emphasis in Hospitality Management 28 Credits

Emphasis Requirements: 26 Credits
- MGMT 3350 Survey of International Business 3.0
- MGMT 3200 Global Tourism 3.0
- HM 3200 Hospitality Management Accounting 4.0
- HM 3390 Hotel Operations II 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
- HM 482R Internship 6.0

Emphasis in International Business 27 Credits

Emphasis Requirements: 12 Credits
- FIN 4180 International Finance Management* 3.0
- MGMT 332G Cross-Cultural Communications for International Business 3.0
- MGMT 335G International Marketing 3.0
- MGMT 4870 International Management* 3.0

Emphasis Elective Requirements: 15 Credits
Complete 15 pre-approved elective credits. See advisor for list of specific courses.

Minor in Business Management 23 Credits

Matriculation Requirements: 1 Admitted to a bachelor degree program at UUV.

Discipline Core Requirements: 20 Credits
- Business Core Courses:
  - ACC 3000 Financial Managerial and Cost Accounting Concepts 4.0
  - INFO 3120 Principles of Information Systems--A Managerial Approach 3.0
  - LEGL 3000 Business Law 3.0
  - MGMT 2200 Business Communication 3.0
  - MGMT 3890 Career Preparation 3.0
  - MGMT 4830 Strategic Management Capstone 3.0
- Elective Requirements: 5 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.

Minor in Entrepreneurship 19 Credits

Discipline Core Requirements: 16 Credits
- MGMT 3170 Entrepreneurship 3.0
- MGMT 3180 Small Business Development 3.0
- MGMT 3190 Entrepreneurship Financing Ventures 3.0
- MGMT 4300 Entrepreneurship Business 3.0
- ACC 2010 Financial Accounting (3.0)
- ACC 2020 Managerial Accounting (3.0)
- ACC 2030 Principles of Accounting (6.0)
- ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)

Elective Requirements: 3 Credits
Choose 3 credits from the following:
- MGMT 3430 Human Resource Management (3.0)
- MKTG 3650 Selling and Sales Management (3.0)
- MKTG 3670 Advertising and Promotion (3.0)
- LEGL 3000 Business Law (3.0)

BA/BS in Integrated Studies 123 Credits

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Business Management 18 Credits

Emphasis Requirements: 18 Credits
- Business Management Emphasis Prerequisites:
  - ACC 2010 Financial Accounting (3.0)
  - ACC 2020 Managerial Accounting (3.0)
- ACC 2030 Principles of Accounting (6.0)
- ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
- DGM 2010 Business Computer Proficiency Exam (3.0)
- Business Computer Proficiency Exam Complete the following:
  - INFO 3120 Principles of Information Systems--A Managerial Approach 3.0
  - ECON 2020 Microeconomics 3.0
  - MGMT 3010 Principles of Management 3.0
  - MKTG 3600 Principles of Marketing 3.0
- Complete 6 credits from the following:
  - LEGL 3000 Business Law (3.0)
  - ECON 2010 Microeconomics (3.0)
  - FIN 3100 Principles of Finance (3.0)
  - MGMT 330G Survey of International Business (3.0)
  - MGMT 3430 Human Resource Management (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.

FOOTNOTES:
1. 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.

BA/BS in Integrated Studies 123 Credits

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Leadership 18 Credits

Emphasis Requirements: 18 Credits
- Leadership (Upper Division) Emphasis Prerequisites:
  - ACC 2010 Financial Accounting (3.0)
  - ACC 2020 Managerial Accounting (3.0)
- ACC 2030 Principles of Accounting (6.0)
  - ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
- Complete the following:
  - INFO 3120 Principles of Information Systems--A Managerial Approach 3.0
  - ECON 2020 Microeconomics 3.0
  - MGMT 3010 Principles of Management 3.0
• MGMT 3500  Leadership Theory and Application  3.0
• MKTG 3600  Principles of Marketing  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.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- HM, Hospitality Management
- MGMT, Business Management
### BA/BS in Marketing 12 Credits

**General Education Requirements: 36-37 Credits**
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
- MATH 1050 College Algebra 4.0
- or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

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 3.0
- HLT 1100 Personal Health and Wellness (2.0)
- PES 1090 Fitness for Life 2.0

**Distribution Courses**
- ECON 2020 Macroeconomics * (fulfills Social Behavioral Science credit) 3.0
- Biology 3.0
- Physical Science 3.0
- Additional Biological or Physical Science 3.0
- Humanities Distribution (Foreign Language 202G for BA degree, 4 cr) 3.0
- Fine Arts Distribution 3.0

**Discipline Core Requirements: 62 Credits**

Business Foundation Courses:
- ACC 2010 Financial Accounting 3.0
- and ACC 2020 Managerial Accounting 3.0
- or ACC 2030 Principles of Accounting (6.0)
- Business Computer Proficiency Exam 1.0
- or DGM 2010 Business Computer Proficiency** 3.0
- MATH 1100 Introduction to Calculus 4.0
- or ECON 2020 Microeconomics 3.0
- MGMT 2200 Business Communications * 3.0
- MGMT 2340 Business Statistics I 3.0
- MGMT 2390 Effective Business Presentations 3.0

Business Core Courses:
- FIN 3100 Principles of Finance * 3.0
- INFO 3120 Principles of Information Systems- A Managerial Approach 3.0
- LEGL 3000 Business Law 3.0
- MKTG 3600 Principles of Marketing 3.0
- MGMT 3000 Organizational Behavior 3.0
- MGMT 3450 Operations Management * 3.0
- MGMT 3890 Career Preparation 2.0
- MGMT 4800 Strategic Management * 3.0
- MGMT 4830 Strategic Management Capstone Simulation 1.0
- or MGMT 493R Entrepreneurship Lecture Series (1.0)
- or MGMT 495R Executive Lecture Series 1.0

**Marketing Core Courses**
- MKTG 335G International Marketing 3.0
- MKTG 3620 Consumer Behavior 3.0
- MKTG 4600 Marketing Research 3.0
- MKTG 4650 Marketing Management 3.0

**Elective Requirements: 25-27 Credits**

Select 15 credits from the following (3 credits must be upper division):
- MKTG 3220 Retail Management (3.0)
- MKTG 3630 Services Marketing (3.0)
- MKTG 3650 Selling and Sales Management (3.0)
- MKTG 3660 Digital Marketing (3.0)
- MKTG 3670 Advertising and Promotion (3.0)
- MKTG 4400 Competitive Intelligence (3.0)
- MKTG 481R Marketing Internship (1.0)
- FOR BA DEGREE: Complete 12 credits of any for- 12.0
dian language course 1010, 1020, 2010 sequence
- FOR BS DEGREE: Select 10 credits from any 10.0
- other non-Woodbury School of Business course

**Graduation Requirements:**

1. Completion of a minimum of 123-126 semester credits required in the BA/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.

### Minor in Marketing 18 Credits

**Discipline Core Requirements: 12 Credits**
- MKTG 335G International Marketing 3.0
- MKTG 3600 Principles of Marketing 3.0
- MKTG 4600 Marketing Research 3.0

**Elective Requirements: 6 Credits**

Select 6 credits from the following:
- MKTG 3220 Retail Management (3.0)
- MKTG 3630 Services Marketing (3.0)
- MKTG 3650 Selling and Sales Management (3.0)
- MKTG 3660 Digital Marketing (3.0)
- MKTG 3670 Advertising and Promotion (3.0)
- MKTG 4400 Competitive Intelligence (3.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- MKTG, Marketing
Mathematics

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Ya Li
Jun Ling
Christine Merrin
Stephen Merrin
Associate Professor
Kathy Andrist
David Brandt
Don Faurot
David Fearnley
Carolyn Hamilton
Scott Lewis
Ray Sievers
Lynn Turnquist
Michiel Van Frankenhuijsen
Christine Walker
Yingxian Zhu
Vivienne Faurot
Erik Heiny
Xiayi Ji
Violeta Vasilevska

College of Science and Health
Dean: Sam Rushforth
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The UVU mathematics programs are designed to provide a strong foundation in mathematics that will support students in many disciplines. The Department of Mathematics offers a wide range of courses to the student planning to complete an AS or BS degree in mathematics or the sciences. Courses taught by the Department of Mathematics are numbered MATH 1030 and above.

The Department of Developmental Mathematics offers MAT 1010, Intermediate Algebra, as well as review and preparatory nontransferable mathematics courses for students who need to strengthen their mathematics skills. See the Developmental Mathematics section of this catalog for a complete listing of these courses.

CAREER OPPORTUNITIES
A career in mathematics, except for teaching at the secondary level, generally requires a graduate degree. However, graduates with a bachelor degree in mathematics and a strong background in a related discipline, such as computer science, statistics, actuarial science, or engineering, can expect good employment opportunities. Mathematicians are called upon to do many different types of jobs that require good reasoning ability and good communication skills. Areas of work for mathematicians include teaching, computer programming and systems analysis, and the design of data encryption systems.

PROGRAMS

AA/AS Pre Major in Mathematics 61-63 CREDITS

General Education Requirements: 35 Credits
• ENGL 1010 Introduction to Writing 3.0
• ENGL 2010 Intermediate Writing—HUMANITIES / SOCIAL SCIENCES 3.0
or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
Complete one of the following:
• 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:
• 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 Introduction to Ethics and Values (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
• PHYS 2210 Physics for Scientists and Engineers I 4.0
• PHYS 2215 Physics for Scientists and Engineers I Lab 1.0
• PHYS 2220 Physics for Scientists and Engineers II (Required for Pure Mathematics Emphasis) (4.0)
• PHYS 2225 Physics for Scientists and Engineers II Lab (Required for Pure Mathematics Emphasis) (1.0)
• One other Biology or Physical Science Distribution (Recommended for Actuarial Science Emphasis) 3.0
• Humanities Distribution 3.0
• Fine Arts Distribution 3.0
• Social/Behavioral Science 3.0

Elective Requirements: 28 Credits
Complete the following:
• MATH 1210 Calculus I 5.0
• MATH 1220 Calculus II 5.0
• MATH 2210 Calculus III 3.0
• MATH 2270 Linear Algebra 3.0
• MATH 2280 Ordinary Differential Equations 3.0
• MATH 3300 Foundations of Abstract Algebra 3.0
• MATH 4210 Advanced Calculus I* 3.0

BS in Mathematics 120 CREDITS

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 3.0
• ENGL 2010 Intermediate Writing—HUMANITIES / SOCIAL SCIENCES 3.0
or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
• MATH 1050 College Algebra (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 3.0
• HLTH 1100 Personal Health and Wellness 2.0
or PES 1097 Fitness for Life (2.0)
Distribution Courses
• Biology 3.0
• PHYS 2210 Physics for Scientists and Engineers I 4.0
• PHYS 2215 Physics for Scientists and Engineers I Lab 1.0
• PHYS 2220 Physics for Scientists and Engineers II (Required for Pure Mathematics Emphasis) (4.0)
• PHYS 2225 Physics for Scientists and Engineers II Lab (Required for Pure Mathematics Emphasis) (1.0)
• One other Biology or Physical Science Distribution (Recommended for Actuarial Science Emphasis) 3.0
• Humanities Distribution 3.0
• Fine Arts Distribution 3.0
• Social/Behavioral Science 3.0

Discipline Core Requirements: 51 CREDITS
Complete 22 credits of upper or lower division electives
Emphasis:
Complete one of the following:
• Actuarial Science 31.0
• Pure Mathematics 31.0

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. Students completing a bachelor degree following the 2008 or later catalog must complete one course that meets the Global/Intercultural Requirement, indicated by a course number ending in G. For a complete listing, see page 25.
## Mathematics

### Emphasis in Actuarial Science 31 Credits

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2010 Microeconomics</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON 2020 Macroeconomics</td>
<td>3.0</td>
</tr>
<tr>
<td>ACC 2010 Financial Accounting (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>ACC 2020 Managerial Accounting (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>or ACC 3000 Financial and Investment Management Concepts</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH 3710 Applied Regression and Time Series</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH 3750 Financial Mathematics</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 4710 Mathematical Statistics I</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 4720 Mathematical Statistics II</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 4750 Life Contingencies</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Emphasis Elective Requirements: 5 Credits

Complete two additional MATH course chosen from the following:

- MATH 3100 Foundations of Geometry (3.0)
- MATH 3210 Complex Variables (3.0)
- MATH 3400 Partial Differential Equations (3.0)
- MATH 3500 Foundations of Topology (3.0)
- MATH 4000 Introduction to Probability (3.0)
- MATH 4220 Advanced Calculus II (3.0)
- MATH 4310 Introduction to Modern Algebra I (3.0)
- MATH 4320 Introduction to Modern Algebra II (3.0)**
- MATH 4330 Theory of Linear Algebra (3.0)
- MATH 4340 Introduction to Number Theory (3.0)
- MATH 4500 Introduction to Topology (3.0)
- MATH 4610 Introduction to Numerical Analysis I (3.0)
- MATH 4620 Introduction to Numerical Analysis II (3.0)**
- MATH 490R Topics in Mathematics (2.0)

### BS in Mathematics Education 126 Credits

#### 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. PRAXIS I Pre-professional Skills Test (PPST) scores of Reading 170 or higher and Mathematics 173 or higher
4. Minimum Cumulative GPA of 2.75

#### General Education Requirements: 34 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following:

- HIST 2700 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)

#### Matriculation Requirements:

1. Completed of all General Education requirements and specified departmental requirements

#### Discipline Core Requirements: 92 Credits

- MATH 1210 Calculus I 5.0
- MATH 1220 Calculus II 5.0
- MATH 2210 Calculus III 3.0
- MATH 2270 Linear Algebra 3.0
- MATH 2280 Ordinary Differential Equations 3.0
- MATH 3010 Introduction to Modern Algebra 3.0
- MATH 3400 Partial Differential Equations (3.0)
- MATH 3710 Applied Regression and Time Series 3.0
- MATH 4720 Mathematical Statistics II 3.0

#### Disciplines Requirement:

- MATH 4220 Advanced Calculus II (3.0)**
- MATH 4320 Introduction to Modern Algebra II (3.0)**
- MATH 4330 Theory of Linear Algebra (3.0)
- MATH 4340 Introduction to Number Theory (3.0)
- MATH 4500 Introduction to Topology (3.0)
- MATH 4610 Introduction to Numerical Analysis I (3.0)
- MATH 4620 Introduction to Numerical Analysis II (3.0)**
- MATH 490R Topics in Mathematics (2.0)

### Emphasis Elective Requirements: 26 Credits

Complete 15 credits chosen from the following:

- MATH 3100 Foundations of Geometry (3.0)
- MATH 3210 Complex Variables (3.0)
- MATH 3400 Partial Differential Equations (3.0)
- MATH 3500 Foundations of Topology (3.0)
- MATH 4000 Introduction to Probability (3.0)
- MATH 4220 Advanced Calculus II (if not already taken) (3.0)
- MATH 4310 Introduction to Modern Algebra I (3.0)
- MATH 4320 Introduction to Modern Algebra II (if not already taken) (3.0)
- MATH 4330 Theory of Linear Algebra (3.0)
- MATH 4340 Introduction to Number Theory (3.0)
- MATH 4500 Introduction to Topology (3.0)
- MATH 4610 Introduction to Numerical Analysis I (3.0)
- MATH 4620 Introduction to Numerical Analysis II (if not already taken) (3.0)
- MATH 490R Topics in Mathematics (2.0)

Complete 13 additional credits of electives; at least 6 must be upper division.

### Graduation Requirements:

1. Completion of a minor in a discipline other than mathematics.
2. Completion of Math Department Exit Survey.

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### Minor in Mathematics 25 Credits

#### Matriculation Requirements:

- Admitted to a bachelor degree program at UVU.

#### Discipline Core Requirements: 25 Credits

- MATH 1210 Calculus I 5.0
- MATH 1220 Calculus II 5.0
- MATH 2210 Calculus III 3.0
- MATH 2270 Linear Algebra 3.0
- MATH 2280 Ordinary Differential Equations 3.0

Choose at least two mathematics courses from the mathematics courses numbered 3200 and above, excluding MATH 481R.

### Graduation Requirements:

1. To fulfill the requirements for a mathematics minor, students must achieve a minimum GPA of 2.4 for all attempted work in the seven mathematics courses required for the mathematics minor and have no course grade lower than “C” in any of the seven mathematics courses required for the mathematics minor (substitutions may be granted for some elective courses).

**NOTE:** The 6-credit pairs of courses, MATH 3200 (Complex variables) and MATH 3400 (Partial Differential Equations), or MATH 4600 and MATH 4620 (Introduction to Numerical Analysis I and II), are recommended for students pursuing majors in the physical sciences, engineering, or computer science. Another recommended pair for computer science majors is MATH 3308 (Foundations of Abstract Algebra) and MATH 4340 (Introduction to Number Theory).

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- MATH, Mathematics
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.

Developmental Mathematics offers MAT 1000, Integrated Beginning and Intermediate Algebra, 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.

OTHER SERVICES

Math Lab
Manager: Kathryn Van Wagoner
Office: LA 201
Telephone: 801-863-8310

Learning Assistance
Manager: Pat Nelson
Office: LC 405q
Telephone: 801-863-7418

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- MAT, Mathematics, Developmental
### Department Chair: Donna Fairbanks
Department Office: GT 332
Department Telephone: 801-863-6480

### Faculty:
- Associate Professor: Donna Fairbanks
- Associate Professor: Bryan Ryting
- Assistant Professor: James Colonna
- Reed Cridde
- Hilary Demske
- Matt Nelson
- Jeb Wallace

#### School of the Arts
Dean: K. Newell Dayley
Office: GT 605a
Telephone: 801-863-7359

As a vital part of a public university committed to engagement and student success, the Department of Music is committed to generate and sustain an inspiring forum of musical creativity that fosters excellence and enhances understanding and appreciation for the musical arts on campus and in the community. Our mission is to:
1. Offer the highest level of education in music for students pursuing undergraduate programs in music education, liberal arts in music, and integrated studies with a music emphasis.
2. Provide general music studies and performance opportunities to all students on campus.
3. Foster an open and inclusive environment that engages traditional and non-traditional students, celebrates differences, and promotes understanding and appreciation of a variety of past and present musical styles and cultures.
4. Provide a supportive and stimulating environment within the Department that allows music faculty to explore new and exciting avenues of creativity and achieve their highest professional potential.
5. Provide artistic leadership in the university and offer performances and events that enrich and promote cultural depth to the campus and community.

#### AS Pre Major in Music
**62 CREDITS**

**General Education Requirements:** 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing—Science and Technology 3.0

Complete one of the following:
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)

#### BA in Music
**120 CREDITS**

**General Education Requirements:** 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0

Choose one of the following:
- 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:
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)

#### BS in Music
**120 CREDITS**

**General Education Requirements:** 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0

Choose one of the following:
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
Discipline Core Requirements: 56 Credits

Majors and Minors

- MUSC 1110 Music Theory I (3.0)
- MUSC 1120 Music Theory II (3.0)
- MUSC 1130 Aural Skills I (1.0)
- MUSC 1140 Aural Skills II (1.0)
- MUSC 2110 Music Theory III (3.0)
- MUSC 2130 Aural Skills III (1.0)
- MUSC 2140 Aural Skills IV (1.0)
- MUSC 3302 Form and Analysis (3.0)
- MUSC 3450 Music History and Literature I (3.0)
- MUSC 3451 Music History and Literature II (3.0)
- MUSC 4120 Twentieth-Century Theory (3.0)

Complete the following:

- MUSC 1150 Group Piano I (2.0)
- MUSC 1160 Group Piano II (2.0)

or Departmental Keyboard Proficiency exam (an additional 4 credits of electives may be required)

- MUSC 1150 Group Piano I (with a grade of "B" or higher)
- MUSC 1160 Group Piano II (with a grade of "B" or higher)

Elective Requirements: 29 Credits

Complete any courses 1500 level or higher (at least 5 credits must be upper-division, see graduation requirements).

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. MUSC 1150, 1160, 250R and 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.

Minor in Music 18 Credits

Majors and Minors

Complete the following:

- MUSC 1650 Private Lessons for Nonmusic Majors (4.0)
- MUSC 1651 String Practicum I (1.0)
- MUSC 1660 Woodwind Practicum I (1.0)
- MUSC 1680 Brass Practicum I (1.0)
- MUSC 1690 Introduction to Music Education (1.0)
- MUSC 3620 Percussion Practicum (1.0)
- MUSC 3650 String Practicum II (1.0)
- MUSC 3660 Woodwind Practicum II (1.0)
- MUSC 3680 Brass Practicum II (1.0)

Performance Skills Development Courses

- MUSC 3303 Wind Symphony (1.0)
- MUSC 331R Percussion Ensemble (1.0)
- MUSC 332R Jazz Ensemble (1.0)
- MUSC 337R Symphony Orchestra (1.0)
- MUSC 372R Chamber Orchestra (1.0)

Complete 10 credits from the following:

- MUSC 1600 Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
- MUSC 1650 Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
- MUSC 1690 Introduction to Music Education (1.0)
- MUSC 3620 Percussion Practicum (1.0)
- MUSC 3650 String Practicum II (1.0)
- MUSC 3660 Woodwind Practicum II (1.0)
- MUSC 3680 Brass Practicum II (1.0)

Performance Skills Development Courses

- MUSC 3303 Wind Symphony (1.0)
- MUSC 331R Percussion Ensemble (1.0)
- MUSC 332R Jazz Ensemble (1.0)
- MUSC 337R Symphony Orchestra (1.0)
- MUSC 372R Chamber Orchestra (1.0)

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- MUSC 1600 Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
- MUSC 1650 Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
- MUSC 1690 Introduction to Music Education (1.0)
- MUSC 3620 Percussion Practicum (1.0)
- MUSC 3650 String Practicum II (1.0)
- MUSC 3660 Woodwind Practicum II (1.0)
- MUSC 3680 Brass Practicum II (1.0)

Performance Skills Development Courses

- MUSC 3303 Wind Symphony (1.0)
- MUSC 331R Percussion Ensemble (1.0)
- MUSC 332R Jazz Ensemble (1.0)
- MUSC 337R Symphony Orchestra (1.0)
- MUSC 372R Chamber Orchestra (1.0)

Complete 10 credits from the following:

- MUSC 1600 Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
- MUSC 1650 Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
- MUSC 1690 Introduction to Music Education (1.0)
- MUSC 3620 Percussion Practicum (1.0)
- MUSC 3650 String Practicum II (1.0)
- MUSC 3660 Woodwind Practicum II (1.0)
- MUSC 3680 Brass Practicum II (1.0)

Performance Skills Development Courses

- MUSC 3303 Wind Symphony (1.0)
- MUSC 331R Percussion Ensemble (1.0)
- MUSC 332R Jazz Ensemble (1.0)
- MUSC 337R Symphony Orchestra (1.0)
- MUSC 372R Chamber Orchestra (1.0)

Complete 10 credits from the following:

- MUSC 1600 Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
- MUSC 1650 Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
- MUSC 1690 Introduction to Music Education (1.0)
- MUSC 3620 Percussion Practicum (1.0)
- MUSC 3650 String Practicum II (1.0)
- MUSC 3660 Woodwind Practicum II (1.0)
- MUSC 3680 Brass Practicum II (1.0)

Performance Skills Development Courses

- MUSC 3303 Wind Symphony (1.0)
- MUSC 331R Percussion Ensemble (1.0)
- MUSC 332R Jazz Ensemble (1.0)
- MUSC 337R Symphony Orchestra (1.0)
- MUSC 372R Chamber Orchestra (1.0)

Complete 10 credits from the following:

- MUSC 1600 Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
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- MUSC 3650 String Practicum II (1.0)
- MUSC 3660 Woodwind Practicum II (1.0)
- MUSC 3680 Brass Practicum II (1.0)

Performance Skills Development Courses

- MUSC 3303 Wind Symphony (1.0)
- MUSC 331R Percussion Ensemble (1.0)
- MUSC 332R Jazz Ensemble (1.0)
- MUSC 337R Symphony Orchestra (1.0)
- MUSC 372R Chamber Orchestra (1.0)

Complete 10 credits from the following:

- MUSC 1600 Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
- MUSC 1650 Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (1.0)
- MUSC 1690 Introduction to Music Education (1.0)
- MUSC 3620 Percussion Practicum (1.0)
- MUSC 3650 String Practicum II (1.0)
- MUSC 3660 Woodwind Practicum II (1.0)
- MUSC 3680 Brass Practicum II (1.0)
### BA/BS in Integrated Studies  123 Credits

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

### Emphasis in Music  18 Credits

<table>
<thead>
<tr>
<th>Emphasis Requirements: 18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prerequisites (see advisor)</strong></td>
</tr>
<tr>
<td>• MUSC 1110  Music Theory I (3.0)</td>
</tr>
<tr>
<td>• MUSC 1120  Music Theory II (3.0)</td>
</tr>
<tr>
<td>• MUSC 1130  Aural Skills I (1.0)</td>
</tr>
<tr>
<td>• MUSC 1140  Aural Skills II (1.0)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Individual Musicianship Studies</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• MUSC 250R  Private Lessons for Music Majors  (Repeated 4 times on major instrument or voice, Requires a grade B or higher) (1.0)</td>
</tr>
<tr>
<td><strong>Complete 4 credits from the following:</strong></td>
</tr>
<tr>
<td>• MUSC 320R  Masterworks Chorale (1.0)</td>
</tr>
<tr>
<td>• MUSC 322R  Chamber Choir (1.0)</td>
</tr>
<tr>
<td>• MUSC 328R  Women's Chorus Treble Singers (1.0)</td>
</tr>
<tr>
<td>• MUSC 330R  Wind Symphony (1.0)</td>
</tr>
<tr>
<td>• MUSC 332R  Jazz Ensemble (1.0)</td>
</tr>
<tr>
<td>• MUSC 338R  Symphony Orchestra (1.0)</td>
</tr>
<tr>
<td>• MUSC 372R  Chamber Orchestra (1.0)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Complete the following:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• MUSC 2110  Music Theory III (3.0)</td>
</tr>
<tr>
<td>• MUSC 2130  Aural Skills III (1.0)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Complete 6 additional credit hours of music courses</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>(four of these credits must be upper division)</td>
</tr>
</tbody>
</table>

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- MUSC, Music
### Nursing

**Department Chair:** Suzette Farmer  
**Office:** HP 203x  
**Telephone:** 801-863-8053  
**E-mail:** Suzette.Farmer@uvu.edu

**ASN Program Coordinator:**  
**Susan Rasmussen**  
**Office:** HP 203v  
**Telephone:** 801-863-6019  
**E-mail:** Susan.Rasmussen@uvu.edu

**BSN Program Coordinator:**  
**Troy Nelson**  
**Office:** HP 203h  
**Telephone:** 801-863-8196  
**E-mail:** Troy.Nelson@uvu.edu

**Nursing Advisor:**  
**Lynnae Marsing**  
**Office:** HP 203a  
**Telephone:** 801-863-6317  
**E-mail:** marsingly@uvu.edu

**Pre-Nursing Counselors:**  
**Denise Fullmer**  
**Office:** LC 402j  
**Telephone:** 801-863-8425  
**E-mail:** fullmede@uvu.edu

**Shane Gunn**  
**Office:** LC 404d  
**Telephone:** 801-863-6761  
**E-mail:** gunnssh@uvu.edu

### Faculty:

**Professor**  
**Gaya Carlton**  
**Marianne Craven**  
**Gary Measom**

**Associate Professor**  
**Marlene Bacon**  
**Hsiu-Chin "Sunny" Chen**  
**Suzette Farmer**  
**Marie Hunter**  
**David C. Keller**  
**Troy Nelson**  
**Jacquie Slade**  
**Mina Wayman**

**Assistant Professor**  
**Sean Bennett**  
**Joohyun Chung**  
**Linda Kochniuk**  
**Dale Maughan**  
**Dianne McAdams-Jones**  
**Katherine Moore**  
**Susan Rasmussen**  
**JeanAnne Johnson-Talbert**  
**Dena Rae Walker**

**Instructor**  
**Allison Swenson**  
**Administrative Assistants:**  
**Diane Evans**  
**Cari Rymer**

---

**College of Science and Health**  
**Dean:** Sam Rushforth  
**Office:** PS 201a  
**Telephone:** 801-863-8980

The Associate of Science in Nursing and Bachelor of Science in Nursing completion programs are accredited by the National League for Nursing Accrediting Commission (NLNAC), 3343 Peachtree Road NE, Suite 850, Atlanta, GA, 30326.

### NURSING PROGRAMS

Undergraduate nursing education includes an Associate in Science in Nursing (ASN) and a 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 BS program, without the need for reapplication, upon successful completion of the ASN. In order to remain in the BS program, students must obtain RN licensure per department policy. Students seeking initial licensure in nursing should contact the Pre-Nursing Counselor for additional program information and application processes. Licensed nurses should contact the Department of Nursing advisor for information regarding the BSN completion program.

The Associate Degree 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 Bachelor of Science in Nursing 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.

Information to consider, regarding the demands and performance requirements of nursing as a career, is available on our website at www.uvu.edu/csh/nursing.

### ADMISSION REQUIREMENTS

Admission to the Nursing Program is required in order to enroll in any nursing course. Admission to the program 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.

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**BS in Nursing**  
**120 Credits**

**Matriculation Requirements:**

1. Acceptance into Nursing program (see Advisor)
2. Overall grade point average of 2.0 (C) or above.
3. Graduation requirements: 24 credit hours through the Department of Nursing.

**Programs**

### ASN in Nursing  
**70 Credits**

**Matriculation Requirements:**

1. Acceptance into Nursing program (see Advisor)
2. Overall grade point average of 2.0 (C) or above.

**General Education Requirements:**  
**27 Credits**

- **Biol 1010** General Biology  
- **Chem 1110** General Chemistry  
- **Eng 1000** Introduction to Writing  
- **Math 1050** College Algebra  
- **Nutr 1020** Foundations of Human Nutrition  
- **Phyl 2050** Ethics and Values  
- **Psy 1100** Human Development Life Span  
- **Zool 2320** Human Anatomy  
- **Zool 2325** Human Anatomy Laboratory

**Discipline Core Requirements:**  
**43 Credits**

Complete the following with a minimum B- or higher:

- **Nurs 2300** Nursing Health Assessment  
- **Nurs 2305** Nursing Health Assessment Laboratory  
- **Nurs 2310** Nursing Pharmacology  
- **Nurs 2320** Nursing Interventions  
- **Nurs 2325** Nursing Interventions Laboratory  
- **Nurs 2410** Nursing Care of Adults with Common Disorders  
- **Nurs 2415** Nursing Care of Adults with Common Disorders Laboratory  
- **Nurs 2420** Nursing Care of Older Adults  
- **Nurs 2430** Nursing Care of Persons with Psychiatric Disorders  
- **Nurs 2435** Nursing Care of Persons with Psychiatric Disorders Laboratory  
- **Nurs 3300** Health Promotion and Health Teaching in Nursing  
- **Micro 2860** Microbiology for Health Professions  
- **Micro 2865** Microbiology for Health Professions Laboratory  
- **Nurs 3310** Nursing Care of Child Bearing Families  
- **Nurs 3315** Nursing Care of Child Bearing Families Clinical  
- **Nurs 3320** Nursing Care of Child Rearing Families  
- **Nurs 3325** Nursing Care of Child Rearing Families Clinical  
- **Nurs 3330** Nursing Care of Persons with Complex Disorders  
- **Nurs 3335** Nursing Care of Persons with Complex Disorders Laboratory  
- **Nurs 3400** Patient Care Coordination and Management  
- **Nurs 3405** Patient Care Coordination and Management Preceptorship  
- **Zool 2420** Human Physiology  
- **Zool 2425** Human Physiology Laboratory  
- **Zool 4400** Pathophysiology (highly recommended)

**Graduation Requirements:**

1. Completion of a minimum of 70 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 specified departmental requirements.

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**BS in Nursing**  
**120 Credits**

**Matriculation Requirements:**

1. Acceptance into Nursing program.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Graduation hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of specified departmental requirements.
### Nursing Distribution Courses
- **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

**Distribution Courses**
- **BIOL 1010** General Biology 3.0
- **CHEM 1110** Elementary Chemistry for the Health Sciences 4.0
- **PSY 1100** Human Development Life Span 3.0
- **ZOOL 2320** Human Anatomy 3.0
- **ZOOL 2325** Human Anatomy Laboratory 1.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0

### Discipline Core Requirements: 84 Credits

Complete the following with a minimum B- or higher:
- **NURS 2300** Nursing Health Assessment 2.0
- **NURS 2305** Nursing Health Assessment Laboratory 1.0
- **NURS 2310** Nursing Pharmacology 3.0
- **NURS 2320** Nursing Interventions 2.0
- **NURS 2325** Nursing Interventions Laboratory 2.0
- **NURS 2410** Nursing Care of Adults with Common Disorders 2.0
- **NURS 2415** Nursing Care of Adults with Common Disorders Clinical 2.0
- **NURS 2420** Nursing Care of Older Adults 2.0
- **NURS 2430** Nursing Care of Persons with Psychiatric Disorders 2.0
- **NURS 2435** Nursing Care of Persons with Psychiatric Disorders Clinical 1.0
- **NURS 3300** Health Promotion and Health Teaching in Nursing 2.0
- **NURS 3310** Nursing Care of Child Bearing Families 2.0
- **NURS 3315** Nursing Care of Child Bearing Families Clinical 1.0
- **NURS 3320** Nursing Care of Child Rearing Families 2.0
- **NURS 3325** Nursing Care of Child Rearing Families Clinical 1.0
- **NURS 3330** Nursing Care of Persons with Complex Disorders 2.0
- **NURS 3335** Nursing Care of Persons with Complex Disorders Clinical 2.0
- **NURS 3400** Patient Care Coordination and Management 2.0
- **NURS 3405** Patient Care Coordination and Management Preceptorship 2.0
- **NURS 4300** Nursing Theory 2.0
- **NURS 4310** Nursing Research 3.0
- **NURS 4320** Nursing in the Community 2.0
- **NURS 4325** Nursing in the Community Clinical 2.0
- **NURS 4330** Nursing in Health Systems and Policy 3.0
- **NURS 4400** Nursing Leadership 2.0
- **NURS 4405** Nursing Leadership Clinical 2.0
- **NURS 441G** Nursing in Global Perspective 3.0
- **NURS 4420** Senior Seminar in Nursing 3.0
- **NURS 4430** Senior Project in Nursing 1.0
- **NURS 4435** Senior Project in Nursing Clinical 2.0
- **MICR 2060** Microbiology for Health Professions 3.0
- **MICR 2065** Microbiology for Health Professions Laboratory 1.0
- **MATH 1040** Introduction to Statistics 3.0
- **MATH 2040** Principles of Statistics (4.0)
- **NUTR 1020** Foundations of Human Nutrition 3.0
- **ZOOL 2420** Human Physiology 3.0
- **ZOOL 2425** Human Physiology Laboratory 1.0
- **ZOOL 4400** Pathophysiology 4.0

And a minimum of 6 credits of adviser approved electives, a minimum of 2 from any upper-division nursing courses, not otherwise required for the Bachelor of Science degree.

RNAs 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.
The faculty of the Philosophy department is strongly committed to the value of diverse views and approaches, both to the study of Philosophy and to higher education in general. We value both teaching and research, and believe that each enhances and informs the other.

Students in the Philosophy baccalaureate program have the opportunity to enroll in a broad and growing range of courses representing both the history of philosophy, and the central problems and issues of philosophical inquiry. The faculty is committed to exposing students to the history and central issues of both continental and analytic streams of contemporary philosophy. We believe that the study of philosophy is interesting, fun, challenging, and intrinsically rewarding, and that the creative, critical, and analytic skills that develop through philosophical training are of tremendous practical value both to everyday life, and to almost any vocation one can enter.

Many students majoring in philosophy take advantage of work study opportunities in the department, including assisting faculty with their research. Advanced students may also have the opportunity to become a teaching assistant and lead discussion sections in philosophy classes.

A student may pursue a BA, BS, AA, AS, Minor or Integrated Studies emphasis in Philosophy. The following courses may also be used to fulfill humanities requirements for Associate in Science or Arts, and Associate in Applied Science degrees. In addition to the General Education requirements, students fulfill the Optional Requirements portion of the AA/AS degree with a Philosophy pre-major by completing 28 additional credits as outlined below.

**PROGRAMS**

**AA Pre Major in Philosophy 60 Credits**

**General Education Requirements:** 35 Credits
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

Complete one of the following:
- 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)

**Discipline Core Requirements:** 16 Credits

Complete the following:
- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- POLS 1100 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

**Elective Requirements:** 9 Credits
- 1.0 or higher

**Graduation Requirements:**
- Completion of a minimum of 60 semester credits.
- Overall grade point average of 2.0 (C) or above.
- Residency hours—minimum of 20 credit hours through course attendance at UVU.
- Completion of GE and specified departmental requirements.

**BA in Philosophy 120 Credits**

**General Education Requirements:** 35 Credits
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

Complete one of the following:
- 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:
- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- POLS 1100 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)
BS in Philosophy  120 CREDITS

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing—Science and Technology 3.0

Complete one of the following:
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) 3.0
  or
- MATH 1104 Introduction to Statistics (recommended for Social Science majors) 3.0
- or
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) 4.0

Complete one of the following:
- HIST 2700 US History since 1877 3.0
- and HIST 2710 US History since 1877 3.0
- or
- HISTR 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
- PSYCH 1011 Stress for Life (2.0)

Distribution Courses
- Biology 3.0
- PHILOS 3530 Environmental Ethics (3.0)
- PHILOS 3540 Christian Ethics (3.0)
- PHILOS 3700 Social and Political Philosophy (3.0)
- PHILOS 450R Interdisciplinary Senior Ethics Seminar (3.0)
- or
- PHILOS 451R Ethical Theory Seminar (3.0)
- or
- PHILOS 3500 Formal Deductive Logic (3.0)

History Set (complete 3 credits from the following) 3.0
- PHILOS 4140 History of Analytic Philosophy (3.0)
- PHILOS 4150 History of Continental Philosophy (3.0)
- or
- PHILOS 4210 History of Pre-Modern Philosophy (3.0)

Topic Set I (complete 3 credits, not previously completed, from the following) 3.0
- PHILOS 3470 Pragmatism and American Philosophy (3.0)
- PHILOS 3750 Marxist Philosophy (3.0)
- PHILOS 3810 Existentialism and Phenomenology (3.0)
- PHILOS 386R Topics in Ancient Philosophy (3.0)
- PHILOS 4130 Nineteenth Century European Philosophy (3.0)
- PHILOS 4150 History of Continental Philosophy (3.0)

Complete 12 additional credits of Philosophy course work, at least 8 of which must be upper-division (excluding those courses taken to fulfill categories listed above). 12.0

Elective Requirements: 48 Credits
- or
- PHILOS 3520 Bioethics (3.0)
- PHILOS 3530 Environmental Ethics (3.0)
- PHILOS 3540 Christian Ethics (3.0)
- PHILOS 3700 Social and Political Philosophy (3.0)
- PHILOS 450R Interdisciplinary Senior Ethics Seminar (3.0)

Complete one of the following: 3.0
- PHIL 2050 Ethics and Values
- HLTH 1100 Personal Health and Wellness
- or
- PSYCH 1011 Stress for Life (2.0)

Distribution Courses
- Biology 3.0
- PHYSICS 2020 Introduction to Physics (3.0)
- PHYSICS 3010 Intermediate Physics (3.0)
- PHYSICS 4910 Philosophy Research Capstone 3.0

Ethics Set (complete 3 credits from the following) 3.0
- PHILOS 3510 Business and Professional Ethics 3.0
- PHILOS 3550 Social and Political Philosophy (3.0)
- PHILOS 450R Interdisciplinary Senior Ethics Seminar (3.0)
- PHILOS 451R Ethical Theory Seminar (3.0)
- or
- PHILOS 4140 History of Analytic Philosophy (3.0)
- PHILOS 4470 Philosophy of Mind (3.0)
- PHILOS 4480 Philosophy of Language (3.0)

Complete the following:
- PHIL 1210 Ancient Greek Philosophy 3.0
- or
- PHIL 2150 Early Modern Philosophy 3.0
- or
- PHIL 4910 Philosophy Research Capstone 3.0

Complete 3 credits from the following: 3.0
- PHYSICS 2020 Introduction to Physics (3.0)
- PHYSICS 3010 Intermediate Physics (3.0)
- PHYSICS 4910 Philosophy Research Capstone 3.0

Complete 12 credits from any 3000 or 4000 level PHIL courses (9 credit hours must be 3000 level or above; no more than 6 credit hours may be at the 1000 level; Philosophy 2050 does not count for this requirement.) 12.0

Graduation Requirements:
- Completion of a minimum of 120 semester credits.
- Overall grade point average of 2.0 (C) or above.
- Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
- Completion of GE and specified departmental requirements.
- Completion of 40 hours or upper-division credit.
- For the BA degree, completion of 18 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G levels or transferred equivalents.
- Students completing a bachelor degree following the 2008 or later catalog must complete one course that meets the Global/Intercultural Requirement, indicated by a course number ending in G. For a complete listing, see page 25.

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 1210, PHIL 290R, PHIL 291R, PHIL 400 R, PHIL 450R, and PHIL 451R can be repeated for credit.

Minor in Philosophy  18 CREDITS

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: 16 Credits

Complete the following:
- PHIL 1210 Ancient Greek Philosophy 3.0
- or
- PHIL 2150 Early Modern Philosophy 3.0
- or
- PHIL 291R Directed Readings 1.0

Complete 12 credits from any 3000 or 4000 level PHIL courses 12.0

BA/BS in Integrated Studies  123 CREDITS

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Philosophy  18 Credits

Emphasis Requirements:  18 Credits

Complete the following:
- PHIL 1250 Logical Thinking and Philosophical Writing 3.0
- PHIL 2110 Medieval Philosophy 3.0
- PHIL 4910 Philosophy Research Capstone 3.0

Complete 12 credits from any 3000 or 4000 level PHIL 12.0 courses

BA/BS in Integrated Studies  123 CREDITS

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Religious Studies  18 Credits

Emphasis Requirements:  18 Credits

Complete the following:
- PHIL 1610 Introduction to Western Religions (3.0)
- PHIL 1620 Introduction to Eastern Religions (3.0)
- ANTH 3450 Shamanism and Indigenous Religion (3.0)

Complete 6 credits from:
- PHIL 3650 Philosophy of Religion 3.0
- RLST 365R Approaches to Religious Studies 3.0
- RLST 366R Issues in Religious Studies 3.0

Complete 9 credits from the following:
- ANTH 4340 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)
• RLST 3540 Christian Ethics (3.0)
• RLST 3610 Introduction to Christian Theology (3.0)
• SOC 3400 Sociology of Religion (3.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- HUM, Humanities
- LATN, Latin
- PHIL, Philosophy
- RLST, Religious Studies
Department Chair: Brent Bargeron  
Office: PS 207  
Telephone: 801-863-6205  
E-mail: bargerbr@uvu.edu

Advisor: Tom Liljegren  
Office: PS 202b  
Telephone: 801-863-8616  
E-mail: TLiljegren@uvu.edu

Advisor, Pre-Health Professions: Jennifer Orchard  
Office: LC 404a  
Telephone: 801-863-7207  
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Faculty:  
Professor  
Brent Bargeron  
Alvin Benson  
Malcolm Crawford  
Phil Matheson  
Paul Mills  
Steve Wasserbaech  
Associate Professor  
Karl Haisch Jr.  
Joseph Jensen  
Assistant Professor  
Bonnie Andersen  
Administrative Assistant:  
Kellie D. Hancock  
Astronomy Lab Manager:  
John Powell  
Laboratory Manager/Instructor:  
Duke Dayton  
Specialist, Research and Instrumentation:  
Alex Panin  

College of Science and Health  
Dean: Sam Rushforth  
Office: PS 201a  
Telephone: 801-863-8980

PHYSICS AT UVU  
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 technology and in the environment.

CAREER OPPORTUNITIES  
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 B. S. 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 the computer software industry and in the invention and marketing of many key measurement devices widely used in all parts of industry.

PROGRAM  
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.

Skills learned as a physics student:
- Rational problem solving and logic  
- Computational skills  
- Computer programming  
- Numerical analysis  
- Instrumentation, data collection and analysis  
- Electronics  
- Writing and presentation skills

The program leading to a Bachelor of Science in Physics is outlined below. There are three parts to the degree, consisting of the General Education Requirements (26 credits), the Discipline Core Requirements (71 credits), and the Elective Requirements (23 credits in elective physics and physics related courses). Students intending to pursue graduate studies in physics should plan on filling the Elective Requirements with courses denoted in the following list with a single asterisk. Such students are particularly advised to complete their studies with a senior project and senior thesis. For those intending to enter graduate school in other disciplines, or to enter the job market directly upon graduation, the Elective Requirements may be tailored to suit the student’s particular needs or interests. For example, a student wishing to attend medical school may wish to focus elective credit in biology and chemistry, a student wishing to pursue an advanced engineering degree may wish to emphasize engineering courses, etc.

PROGRAMS  
BS in Physics  
120 Credits

Matriculation Requirements:
- Approval of department chair.

General Education Requirements: 26 Credits
- ENGL 1010 Introduction to Writing 3.0  
- ENGL 2020 Intermediate Writing--Science and Technology 3.0

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)  
- POLS 1000 American Political 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  
- Humanities Distribution 3.0  
- Fine Arts Distribution 3.0  
- Social/Behavioral Science 3.0

Discipline Core Requirements: 71 Credits

- PHYS 2210 Physics for Scientists and Engineers I 4.0
- PHYS 2215 Physics for Scientists and Engineers I Lab 1.0
- PHYS 2220 Physics for Scientists and Engineers II 4.0
- PHYS 2225 Physics for Scientists and Engineers II Lab 1.0
- PHYS 3210 Introduction to Experimental Physics I 2.0
- PHYS 3220 Introduction to Experimental Physics II 2.0
- PHYS 3230 Principles of Electronics for the Physical Sciences 3.0
- PHYS 3300 Mathematical Physics 3.0
- PHYS 3400 Classical Mechanics 3.0
- PHYS 3500 Thermodynamics 3.0
- PHYS 3740 Modern Physics 3.0
- PHYS 4210 Advanced Experimental Techniques 3.0
- PHYS 4300 Computational Physics 3.0
- PHYS 4410 Electromagnetism 3.0
- PHYS 4600 Optics 3.0
- PHYS 490R Seminar (0.5 credits, taken 4 times) (0.5)
- CS 1400 Fundamentals of Programming 3.0
- MATH 1210 Calculus I 5.0
- MATH 1220 Calculus II 5.0
- MATH 2210 Calculus III 3.0
- MATH 2280 Ordinary Differential Equations 3.0

Complete 9 credits from the following:
- ASTR 3050 Astrophysics I (3.0)
- ASTR 3060 Astrophysics II (3.0)
- PHYS 4420 Electrodynamicst (3.0)
- PHYS 4510 Quantum Mechanics I* (3.0)
- PHYS 4520 Quantum Mechanics II* (3.0)
- PHYS 4700 Acoustics* (3.0)
- PHYS 4800 Solid State Physics* (3.0)
- PHYS 499A Senior Project (2.0)
- PHYS 499B Senior Thesis (1.0)

Elective Requirements: 23 Credits
- Complete any 1000 level or higher 1.0

Complete 22 credits from the following courses not used above (SEE ADVISOR). The selection of elective option coursework must present a coherent theme such as engineering physics, geophysics, environmental physics, computational physics, etc.
- 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)
- Any BIOL course 3410 or higher except internship and independent study type courses.
CHEM 1210 Principles of Chemistry I** (4.0)
CHEM 1215 Principles of Chemistry I Laboratory (1.0)
CHEM 1220 Principles of Chemistry II** (4.0)
CHEM 1225 Principles of Chemistry II Laboratory (1.0)

Any CHEM course 2310 or higher except internship and independent study type courses.

Any GS course 1410 or higher except internship and independent study type courses.

Any EENG course 2700 or higher except internship and independent study type courses.

Any ENGR course 2010 or higher except internship and independent study type courses.

PHYS 1010 Introduction to Geology (1.0)
PHYS 1015 Introduction to Geology Laboratory (1.0)

Any GEO course 3080 or higher except internship and independent study type courses.

HIST 1710 American Civilization (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
HLTH 1100 Personal Health and Wellness (2.0) or
PES 1097 Fitness for Life 2.0

Distribution Courses:

- Biology 3.0
- CHEM 1210 Principles of Chemistry I 3.0
- CHEM 1215 Principles of Chemistry I Laboratory 1.0
- CHEM 1220 Principles of Chemistry II 4.0
- CHEM 1225 Principles of Chemistry II Laboratory 1.0
- Humans 3.0
- Fine Arts 3.0
- Social/Behavioral Science 3.0

Departmental Core Requirements: 85 Credits

- CHEM 2310 Organic Chemistry I 4.0
- CHEM 2320 Organic Chemistry II 4.0
- CHEM 2315 Organic Chemistry I Laboratory 1.0
- CHEM 2325 Organic Chemistry II Laboratory 1.0
- CHEM 3000 Analytical Chemistry 3.0
- CHEM 3005 Analytical Chemistry Laboratory 1.0
- CHEM 4200 Teaching Methods in Science 3.0
- HIST 4320 History of Scientific Thought 3.0
- MATH 2210 Calculus II 3.0
- MATH 2210 Calculus II 3.0
- PHYS 2210 Physics for Scientists and Engineers I 4.0

EDUCATION COURSES:

- EDSC 3000 Educational Psychology 3.0
- EDSC 3050 Foundations of American Education 2.0
- EDSC 3250 Instructional Media 2.0
- EDSC 4200 Classroom Management I 2.0
- EDSC 4250 Classroom Management II 3.0
- EDSC 4440 Content Area Reading and Writing 3.0
- EDSC 445G Multicultural Instruction ESL 3.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 3.0
- EDSC 4850 Student Teaching--Secondary (4.0) 10.0
- EDSP 3400 Exceptional Students 2.0

Complete one of the following sets:

CHEMISTRY:

- CHEM 3060 Physical Chemistry I (4.0)
- CHEM 3100 Advanced Inorganic Chemistry (4.0)
- ASTR 3050 Astrophysics (3.0)

PHYSICS:

- PHYS 3210 Introduction to Experimental Physics I (2.0)
- PHYS 490R Seminar* (0.5)

Complete 9 credits from the following:

- ASTR 3050 Astrophysics I (3.0)
- PHYS 3230 Principles of Electronics for the Physical Sciences (3.0)
- PHYS 3300 Mathematical Physics (3.0)
- PHYS 3400 Classical Mechanics (3.0)
- PHYS 3500 Thermodynamics (3.0)
- PHYS 3800 Energy use on Earth (3.0)
- PHYS 4700 Acoustics (3.0)

BS in Chemistry/Physics Education 125 Credits

Matriculation Requirements:

1. Students are admitted directly to the Baccalaureate major.
2. GPA of 2.75 or higher
3. Completion of all General Education requirements and required pre-professional education courses.
4. An interview directed by the Teacher Education Selection and Retention Committee.
5. Pass criminal background check.

Select one of the following:

- ASTR, Astronomy
- PHSC, Physical Science
- PHYS, Physics
Political Science

Department of History and Political Science

Department Chair: Kathren Brown
Department Office: LA 030
Telephone: 801-863-8487
Fax: 801-863-7013

Political Science Coordinator:
David Connelly

Administrative Assistant:
Paula Wankier

Faculty:
Professor
F. Dennis Farnsworth, Jr.
Associate Professor
David R. Connelly
Jay A. DeSart
Rick A. Griffin
Assistant Professor
Geoffrey Cockeren
Lecturer
Baktybek Abdrisaev
Lynn England

College of Humanities and Social Sciences
Dean: David P. Yells
Office: LA 209d
Telephone: 801-863-7435

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. 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 non-profit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and post-secondary education. Political science is also the leading course of study for students preparing to enter law school.

Several courses fill general education requirements in the social science distribution area and Global/Intercultural distribution areas. Upper division courses apply toward a BA/BS in Political Science and the Integrated Studies Social Sciences emphasis and may serve as electives in other programs, such as Peace and Justice Studies.

BA in Political Science 120 CREDITS

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

Complete one of the following:

- 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:

- HIST 1700 American Civilization (3.0)
- HIST 2710 US History since 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 3.0
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2.0

Distribution Core Requirements: 24 Credits

- POLS 1010 Introduction to Political Science 3.0
- POLS 1020 Political Ideologies 3.0
- POLS 1150 American National Government 3.0
- POLS 2100 Introduction to International Relations 3.0
- or POLS 2200 Introduction to Comparative Politics 3.0
- or POLS 3000 Political Analysis 3.0
- POLS 3300 Introduction to Public Administration 3.0
- POLS 4990 Senior Seminar 3.0

Emphasis:

Complete one of the following:

- American Government 18.0
- Political Philosophy/Public Law 18.0
- World Politics 18.0

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)

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 2020G levels or transferred equivalents.

Emphasis in American Government 18 CREDITS

Emphasis Requirements: 18 Credits

Complete 18 credits from the following courses: 18.0

- POLS 3030 State and Local Government (3.0)
- POLS 3150 US Presidency (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 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)
- HIST 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)

Emphasis in Political Philosophy/Public Law 18 CREDITS

Emphasis Requirements: 18 Credits

Complete 18 credits from the following: 18.0

- POLS 230G Introduction to Political Theory (3.0)
- POLS 3300 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)

Emphasis in World Politics 18 CREDITS

Emphasis Requirements: 18 Credits

Complete 18 credits from the following courses: 18.0

- POLS 1440 Introduction to Middle East Politics (3.0)
- POLS 1890 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 4305 International Conflict and Security (3.0)
- POLS 4810 International Law and Relations (3.0)
- POLS 490R Independent Study (1.0)
- HIST 3050 Modern Latin America (3.0)
- HIST 430G Violence and Social Conflict in Latin America (3.0)
BS in Political Science 120 Credits

General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing/Humanities/ Social Sciences (3.0)
of ENGL 2020 Intermediate Writing/Science and Technology
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) 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 1710 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)

Complete the following:
- PHIL 2500 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 3.0
- Fine Arts 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 39 Credits
- POLS 1010 Introduction to Political Science 3.0
- POLS 1020 Political Ideologies 3.0
- POLS 1100 American National Government 3.0
- POLS 2100 Introduction to International Relations 3.0
- POLS 2200 Introduction to Comparative Politics 3.0
- POLS 3000 Political Analysis 3.0
- POLS 3030 Introduction to Public Administration 3.0
- POLS 3300 Introduction to Law and Politics (3.0)
- POLS 3300 Constitutional History to Plessy 1896 (3.0)
- POLS 3380 Constitutional History since 1896 (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)

Emphasis in Political Philosophy/Public Law 18 Credits

Emphasis Requirements: 18 Credits
Complete 18 credits from the following courses:
- POLS 3230 Introduction to Political Theory (3.0)
- POLS 3300 State and Local Government (3.0)
- POLS 3810 Public Opinion and Political Behavior (3.0)
- POLS 3200 US Congress (3.0)
- POLS 3250 Introduction to Law and Politics (3.0)
- PHIL 4720 Foundations of American Constitutionalism (3.0)
- POLS 4790 US Constitution (3.0)
- POLS 4720 Introduction to Public Administration (3.0)
- POLS 4780 International Relations of East Asia (3.0)
- POLS 4500 International Conflict and Security (3.0)
- POLS 4510 International Law and Relations (3.0)
- POLS 480R Internship (2.0)

Graduation Requirements:
1. Complete all political science courses with a grade of "C-" or better.

BA/BS in Integrated Studies 123 Credits

Graduation Requirements:
1. Complete all political science courses with a grade of "C-" or better.

Emphasis in Social Sciences 18 Credits

Emphasis Requirements: 18 Credits
Complete 18 credits from 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 359G American Indian Law and Tribal Government (3.0)
- POLS 3610 International Organization (3.0)
- POLS 3680 International Political Economy (3.0)
- POLS 4500 International Conflict and Security (3.0)
- POLS 4610 International Law and Relations (3.0)
- POLS 480R Internship (2.0)

Emphasis in American Government 18 Credits

Emphasis Requirements: 18 Credits
Complete 18 credits from the following courses:
- POLS 1010 Introduction to Political Science or POLS 1100 American National Government
- POLS 3030 State and Local Government (3.0)
- POLS 3160 US Presidency (3.0)
- POLS 3200 US Congress (3.0)
- POLS 3250 Introduction to Law and Politics (3.0)
- POLS 4720 Foundations of American Constitutionalism (3.0)
- POLS 4790 US Constitution (3.0)
- POLS 4720 Introduction to Public Administration (3.0)
- POLS 4780 International Relations of East Asia (3.0)
- POLS 4500 International Conflict and Security (3.0)
- POLS 4510 International Law and Relations (3.0)
- POLS 480R Internship (2.0)

Minor in Political Science 21 Credits

Matriculation Requirements:
1. Completion of POLS 1010, Introduction to Political Science; or POLS 1100, American National Government.
2. Admission to a bachelor degree program at UVU.

Graduation Requirements:
1. Complete all political science courses with a grade of "C-" or better.

Emphasis in World Politics 18 Credits

Emphasis Requirements: 18 Credits
Complete 18 credits from 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 4909 Independent Study (1.0)
- HIST 3050 Modern Latin America (3.0)
- HIST 430G Violence and Social Conflict in Latin America (3.0)
## Political Science

- **POLS 3100** Survey of International Terrorism (3.0)
- **POLS 3150** US Presidency (3.0)
- **POLS 3200** US Congress (3.0)
- **POLS 3500** International Relations of the Middle East (3.0)
- **POLS 356G** Comparative Politics of Central Asia (3.0)
- **POLS 359G** American Indian Law and Tribal Government (3.0)
- **POLS 3600** International Relations of East Asia (3.0)
- **POLS 480R** Internship (2.0)

Complete at least 3 credits from the following courses:

- **HIST 1500** World History to 1500 (3.0)
- **HIST 151G** World History from 1500 to the Present (3.0)
- **HIST 1700** American Civilization (3.0)
- **HIST 2700** US History to 1877 (3.0)
- **HIST 2710** US History since 1877 (3.0)

Complete an additional 9 credits from any GEOG, HIST, or POLS course 3000 or higher (see advisor).

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- ARCH, Archaeology
- HIST, History
- POLS, Political Science
- SOSC, Social Science
Pre-Engineering Science

Department of Engineering Graphics and Design Technology

Department Chair: Robert Price
Office: CS 704g
Telephone: 801-863-8145

Administrative Support: Christine Bigelow
Office: CS 704
Telephone: 801-863-8363

Faculty:
Associate Professor
Masood Amin
Advisor: Fred Orchard
Office: CS 635
Telephone: 801-863-6238

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

Pre-Engineering Science

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. 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 engineering program at UVU.

Students can choose from two degree plans. The Associate of 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 of 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.

Pre-engineering programs will vary markedly from student to student depending on several factors including: high school preparation, engineering discipline of interest, and the intended four-year transfer school. The pre-engineering advisor will consider these factors when designing a program to fit the needs of each individual student. It is therefore important that pre-engineering students consult with the pre-engineering advisor concerning classes appropriate for their educational experience at UVU. Call 801-863-8648 for a personal appointment.

The normal entry-level mathematics class for pre-engineering students is Calculus I (MATH 1210). Prerequisites for Calculus I are College Algebra (MATH 1050) and Trigonometry (MATH 1060) or placement through the ACT and/or UVU New Student Assessment test. Remedial course work is available for students with inadequate high school preparation and achievement. Inadequately prepared students should see a pre-engineering advisor for recommended remedial courses which must be completed in addition to the normal pre-engineering requirements.

AS Pre Major in Pre-Engineering 63 Credits

General Education Requirements: 39 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2020 Intermediate Writing–Science and Technology 3.0
- MATH 1210 Calculus I 5.0
Complete one of the following: 3.0
- HIST 1700 American Civilization (3.0)
- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
and HIST 2710 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)
Complete the following: 3.0
- PHIL 2050 Ethics and Values
- HLTH 1100 Personal Health and Wellness (2.0) or PES 1097 Fitness for Life 2.0
Distribution Courses: 12 Credits
- CHEM 1210 Principles of Chemistry I 4.0
- PHYS 2210 Physics for Scientists and Engineers I 4.0
- Humanities 3.0
- Fine Arts 3.0
- Social/Behavioral Science 3.0
- Biology 3.0
Complete ONE of the following sets of courses: 16.0
General Engineering Emphasis
- 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)
- CS 2810 Computer Organization and Architecture (3.0)
or EGDT 1040 Computer Aided Drafting–AutoCAD (3.0)
Complete eight credits of Pre-Engineering electives: 24 Credits
- ENGR 2140 Mechanics of Materials (3.0)
- Complete three credits of Pre-Engineering electives
Electrical/Computer Courses:
- PHYS 2220 Physics for Scientists and Engineers II (4.0)
- EENG 2250 Circuit Theory (3.0)
- EENG 2255 Circuit Theory Lab (1.0)
- EENG 2700 Digital Design I (3.0)
- EENG 2705 Digital Design II Lab (1.0)
- Complete four credits of Pre-Engineering electives
Chemical/Biological Courses:
- PHYS 2220 Physics for Scientists and Engineers II (4.0)
- CHEM 2310 Organic Chemistry I (4.0)
- ENGR 2100 Engineering Statics (3.0)
- Complete five credits of Pre-Engineering electives

Elective Requirements:
- Students should carefully select electives based on the engineering discipline they are interested in and the college or university they want to attend to finish their BS degree. See your advisor.

Introduction to Engineering Disciplines
- ENGR 1000 Introduction to Engineering (3.0)
- ENGR 2450 Computational Methods for Engineering Analysis (3.0)
- ENGR 295R Special Topics (1.0)
- Math and Science Electives (required by most engineering programs):
  - MATH 2210 Calculus II (3.0)
  - MATH 2270 Linear Algebra (3.0)
  - MATH 2280 Ordinary Differential Equations (3.0)
  - PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)
  - PHYS 2225 Physics for Scientists and Engineers II Lab (1.0)
  - CHEM 1215 Principles of Chemistry I Laboratory (1.0)

General Engineering Electives
- MATH 1050 College Algebra (4.0)
- MATH 1060 Trigonometry (3.0)

Biological and Chemical Engineering Electives:
- 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)
- MICR 2060 Microbiology for Health Professions (3.0)
- MICR 2065 Microbiology for Health Professions Laboratory (1.0)
- CHEM 1220 Principles of Chemistry I (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)

Civil and Mechanical Engineering Electives:
- EENG 2210 Fundamentals of Electric Circuit Analysis (3.0)
- ENGR 2300 Engineering Thermodynamics (3.0)
- EGDT 1040 Computer Aided Drafting–AutoCAD (3.0)
- EGDT 1400 Surveying (4.0)

Computer and Electrical Engineering Electives:
- CS 1410 Object-Oriented Programming (3.0)
- CS 2810 Computer Organization and Architecture (3.0)
- CS 2300 Discrete Structures I (3.0)
- CS 2420 Introduction to Algorithms and Data Structures (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.

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APE in Associate in Pre-Engineering Science 68-69 Credits

General Education Requirements: 28 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2020 Intermediate Writing—Science and Technology 3.0

Complete the following Natural and Physical Science courses:
- Biology 3.0
- CHEM 1210 Principles of Chemistry I 3.0
- CHEM 1215 Principles of Chemistry I Laboratory 1.0
- PHYS 2210 Physics for Scientists and Engineers I 4.0
- PHYS 2215 Physics for Scientists and Engineers I Lab 1.0

Complete any combination of the following with no more than 1 course each from Humanities, Fine Arts, and Social/Behavioral Sciences:
- Humanities (from list)
- Fine Arts (from list)
- Social/Behavioral Sciences (from list)

Complete any American Institutions course 3.0
- POLS 1000 American Heritage (3.0)
- 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 1100 American National Government (3.0)

Discipline Core Requirements: 18 Credits
- MATH 1210 Calculus I 5.0
- MATH 1220 Calculus II 5.0
- CS 1400 Fundamentals of Programming 3.0
- PHYS 2220 Physics for Scientists and Engineers II 4.0
- PHYS 2225 Physics for Scientists and Engineers II Lab 1.0

Emphasis:
Complete one of the following:
- Biological and Chemical Engineering 23.0
- Civil and Mechanical Engineering 22.0
- Computer and Electrical Engineering 23.0

Graduation Requirements:
1. Completion of a minimum of 68 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.

Emphasis in Biological and Chemical Engineering 23 Credits

Emphasis Requirements: 8 Credits
- CHEM 1220 Principles of Chemistry II 4.0
- CHEM 1225 Principles of Chemistry II Laboratory 1.0
- ENGR 2010 Engineering Statics 3.0

Emphasis Elective Requirements: 15 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)
- MICR 2060 Microbiology for Health Professions (3.0)
- and 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 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)
- ENGR 2000 Introduction to Engineering (3.0)
- ENGR 2450 Computational Methods for Engineering Analysis (3.0)
- ENGR 295R Special Topics (1.0)
- MATH 2210 Calculus III (3.0)

- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)

Emphasis in Civil and Mechanical Engineering 22 Credits

Emphasis Requirements: 9 Credits
- ENGR 2010 Engineering Statics 3.0
- ENGR 2030 Engineering Dynamics 3.0
- ENGR 2140 Mechanics of Materials 3.0

Emphasis Elective Requirements: 13 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.
- EGDT 1040 Computer Aided Drafting—AutoCAD (3.0)
- EGDT 1400 Surveying (4.0)
- ENGR 1000 Introduction to Engineering (3.0)
- EENG 2210 Fundamentals of Electric Circuit Analysis (3.0)
- EENG 2215 Fundamentals of Electric Circuit Analysis Lab (1.0)
- ENGR 2300 Engineering Thermodynamics (3.0)
- ENGR 2450 Computational Methods for Engineering Analysis (3.0)
- ENGR 295R Special Topics (Must be taken 3 times) (3.0)
- MATH 2210 Calculus III (3.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)

Emphasis in Computer and Electrical Engineering 23 Credits

Emphasis Requirements: 8 Credits
- EENG 2250 Circuit Theory 3.0
- EENG 2255 Circuit Theory Lab 1.0
- EENG 2700 Digital Design I 3.0
- EENG 2705 Digital Design I Lab 1.0

Emphasis Elective Requirements: 15 Credits
Students should carefully select electives from the following list, 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.
- CS 1410 Object-Oriented Programming (3.0)
- CS 2810 Computer Organization and Architecture (3.0)
- CS 2300 Discrete Structures I (3.0)
- CS 2420 Introduction to Algorithms and Data Structures (3.0)
- EENG 3740 Digital Design II (3.0)
- ENGR 1000 Introduction to Engineering (3.0)
- ENGR 2450 Computational Methods for Engineering Analysis (3.0)
- ENGR 295R Special Topics (1.0)
- MATH 2210 Calculus III (3.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- EART, Electrical Automation and Robotics
- EGDT, Engineering Graphics and Design Technology
- ENGR, Engineering Science
- GIS, Geographic Information Systems
- MECH, Mechatronics Technology
- SURV, Land Surveying
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, School Health Education Emphasis, Health Services Administration; or a Health Minor with an emphasis in Community Health Education or School Health Education.

The Public and Community Health program at UVU provides support courses for General Education, the Elementary Education program, and the Integrated Studies program. The department is committed to provide course work that will enable students to complete an Associate in Science or Associate in Arts Degree with a pre-major in Community Health, and that can be transferred to other institutions.

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.

**Public & Community Health**

**AA Pre major in Community Health**

**General Education Requirements:**
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2020 Intermediate Writing--Humanities/ Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

**Complete one of the following:**
- 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:**
- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- and HIST 1700 American Civilization (3.0)
- or HIST 1740 US Economic History (3.0)
- or POLS 1000 American Heritage (3.0)
- or POLS 1100 American National Government (3.0)

**Complete the following:**
- PHIL 1050 Ethics and Values (3.0)
- or 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:**
- NUTR 1020 Foundations of Human Nutrition (3.0)
- HLTH 1200 First Aid (2.0)
- HLTH 2400 Concepts of Stress Management (3.0)
- HLTH 2800 Human Sexuality (3.0)
- HLTH 2600 Drugs Behavior and Society (3.0)

**Complete 3 credits from the following:**
- COMM 2110 Interpersonal Communication (3.0)
- ENV 1110 Introduction to Environmental Management (3.0)
- ENV 2560 Environmental Health (3.0)
- EXSC 270G Foundations of Exercise Cycle (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 Women’s Health Issues (3.0)
- MGM 3000 Organizational Behavior (3.0)
- NUTR 2200 Nutrition Through the Life Cycle (3.0)
- PSY 1100 Human Development Life Span (3.0)
- PSY 2250 Psychology of Interpersonal Relationships (3.0)

**Elective Requirements:** 8 Credits
- Same Foreign Language (1010 and 1020) 8.0

**Graduation Requirements:**
1. Completion of a minimum of 62 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. For the AA degree, completion of 8 credit hours of course work from one language.

**Public & Community Health**

**AS Pre major in Community Health**

**General Education Requirements:**
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

**Complete one of the following:**
- 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:**
- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- and HIST 1700 American Civilization (3.0)
- or HIST 1740 US Economic History (3.0)
- or POLS 1000 American Heritage (3.0)
- or POLS 1100 American National Government (3.0)

**Complete the following:**
- PHIL 1050 Ethics and Values (3.0)
- or 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:**
- NUTR 1020 Foundations of Human Nutrition (3.0)
- HLTH 1200 First Aid (2.0)
- HLTH 2400 Concepts of Stress Management (3.0)
- HLTH 2800 Human Sexuality (3.0)
- HLTH 2600 Drugs Behavior and Society (3.0)

**Complete 3 credits from the following:**
- COMM 2110 Interpersonal Communication (3.0)
- ENV 1110 Introduction to Environmental Management (3.0)
- ENV 2560 Environmental Health (3.0)
- EXSC 270G Foundations of Exercise Cycle (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 Women’s Health Issues (3.0)
- MGM 3000 Organizational Behavior (3.0)
- NUTR 2200 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.
3. Residency hours– minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

**BS in Community Health**

**General Education Requirements:**
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

**Complete one of the following:**
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
Complete the following courses with a minimum GPA of 2.5 or better. HLTH 3200, HLTH 3220, and all Emphasis Courses.

Emphasis in Health Services Administration 51 Credits

Emphasis Requirements:
• HLTH 3300 Health Promotion for Older Adults (3.0)
• HLTH 4300 Community Health Ethics (3.0)
• HLTH 4500 Public Health Administration (3.0)
• HLTH 482R Community Health Internship (2.0) or HLTH 403R International Health Education Internship (2.0)
• ECON 2040 Microeconomics (3.0)
• MGMT 2200 Business Communications (3.0)
• MGMT 2240 Foundations of Business Statistics (3.0)
• MGMT 2390 Effective Business Presentations (3.0)
• MGMT 3010 Principles of Management (3.0)
• MGMT 3430 Human Resource Management (3.0)
• MKTG 3600 Principles of Marketing (3.0)
• ACC 2010 Financial Accounting (3.0)
• ACC 2020 Managerial Accounting (3.0)
• ACC 2030 Principles of Accounting (3.0)
• INFO 3120 Principles of Information Systems--A Managerial Approach (3.0)
• LEGL 3160 Health Care Law (3.0)
• HLTH 440G Health and Diversity (3.0)

Emphasis Elective Requirements: 4 Credits
• Complete any courses 1000 or higher. 4.0

BS in School Health Education 124 Credits
Matriculation Requirements:
1 PRAKIS I Pre-Professional Skills Test (PPST) scores of Reading 170 and Mathematics 173 or higher.
2 GPA of 2.5 or higher
3 Completion of all General Education requirements and required pre-professional education courses.
4 An interview directed by the Teacher Education Selection and Retention Committee.
5 Pass criminal background check.

General Education Requirements: 36 Credits
• ENGL 1010 Introduction to Writing (3.0)
or ENGL 2010 Intermediate Writing—Humanities or Social Sciences (3.0)
or ENGL 2200 Intermediate Writing—Science and Technology (3.0)
• MATH 1050 College Algebra (4.0)

Completion of the following:
• HIST 2710 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 Government (3.0)

Complete the following:
• PHIL 2050 Ethics and Values (3.0)
• HLTH 1150 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: 70 Credits
• ENVT 2560 Environmental Health (3.0)
• HLTH 1200 First Aid (2.0)
• HLTH 2400 Concepts of Stress Management (3.0)
• HLTH 2800 Human Sexuality (3.0)
• HLTH 3200 Principles of Community Health (3.0)

Minor in Community

Health Education 21 Credits
Matriculation Requirements:
1 Must be accepted into a Secondary Education major program.

Discipline Core Requirements: 18 Credits
• HLTH 2620 Drugs Behavior and Society (3.0)
• HLTH 2800 Human Sexuality (3.0)
• HLTH 3200 Principles of Community Health (3.0)
• HLTH 3220 Foundations of Health Education (3.0)

Elective Requirements: 3 Credits
Any upper-division HLTH course not used in Discipline Core

Minor in School Health Education 21 Credits
Matriculation Requirements:
1 Must be accepted into a Secondary Education major program.

Discipline Core Requirements: 18 Credits
• HLTH 2620 Drugs Behavior and Society (3.0)
• HLTH 2800 Human Sexuality (3.0)
• HLTH 3200 Principles of Community Health (3.0)
• HLTH 3220 Foundations of Health Education (3.0)

Elective Requirements: 3 Credits
Any upper-division HLTH course not used in Discipline Core

BA/BS in Integrated Studies 123 Credits
The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Community Health 18 Credits
Matriculation Requirements:
Complete the following:

Minor in Community Health Education
• HLTH 3200 Principles of Community Health 3.0
• HLTH 3220 Foundations of Health Education 3.0
• HLTH 3400 Human Diseases 3.0
  or HLTH 3800 Epidemiology (3.0)
• HLTH 4300 Community Health Ethics (3.0)
  or HLTH 4600 Research Methods for Community Health 3.0

Choose 6 credits from the following: 6.0
• 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 2800 Human Sexuality (3.0)
• HLTH 2600 Drugs Behavior and Society (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)
• HLTH 4150 Community Health Program Development and Evaluation (3.0)
• HLTH 4250 Health Services Organization and Policy (3.0)
• HLTH 490R Special Topics in Community Health (1.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- HLTH, Community Health
- NUTR, Nutrition
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 the skills, and attitudes for transition into the United States Armed Forces.

**ROTC 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 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 detachments and BTOD website. The following ROTC scholarships are for military service in the United States Air Force, U.S. Army, or U.S. Army National Guard. ROTC scholarships are awarded on a competitive basis and application must be submitted through 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 detachments.

**AIR FORCE ROTC**

- MILS 3200 Small Unit Leadership I
- MILS 3210 Small Unit Leadership II
- MILS 4200 The Profession of Arms I
- MILS 4210 The Profession of Arms II

Complete one of the following:
- HIST 345G The History of World War II (3.0)
- HIST 3520 The United States and Vietnam, 1945 to Present (3.0)
- HIST 4740 American Revolution (3.0)

Complete 3 credits from the following:
- COMM 3520 Case Studies in Public Relations (3.0)
- CJ 3104 Community Policing (3.0)
- ENGL 2310 Technical Communication (3.0)
- DGM 3265 Authoring for Virtual Reality Environments (3.0)
- DGM 3290 Developing Digital Media for Instruction and Training (3.0)
- MGMT 3300 Survey of International Business (3.0)
- MGMT 3320 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.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- AERO, Aerospace Studies
- MILS, Military Studies
Technology Management

Technology Management

Department Chair: Cheryl Hanewicz
Office: GT 616c
Telephone: 801-863-6152

Administrative Support
Lisa Isenbarger
GT 616
Telephone: 801-863-8137

Faculty:
Professor
David Johnson
Associate Professor
Cheryl Hanewicz
Floyd Olson
Assistant Professor
Russell Thornley
Advisor: Carrie Peterson
Office: CS 635
Telephone: 801-863-7454

Advisory Committee: Scott Atkinson, Caldera Engineering; Josh Davis, Hydro-Homes; Kylen Hansen, Layton Construction; John Osborne, BMS Building Materials; Leonard Pavia, MKS Services; Scott Seals, Riintiont; Dale Sevy, Questar; David Sorensen, MEP

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

The Bachelor of Science Degree in Technology Management has a multi-disciplinary focus and is designed for students who want to develop leadership and management skills within their technology area or combination of related areas. Students may enter the program with an AAS degree in an approved technical area or an AS degree containing at least 45 credit hours in an approved technical specialty. Students may also enter the program as a sophomore and take their technology and management courses concurrently. As part of the degree, students may also pursue certifications in such areas as project management and quality control (Lean Six Sigma).

We view technology as the practical application of knowledge, or a capability given by such, and see management skills as keys that help bring innovation and change along with efficiency, effectiveness, continuity, quality, and safety to the process. In addition, we recognize the responsibility that all of us have to understand the impact of technology on society and to address the social and moral issues associated with the appropriate use of technology.

While the Technology Management Degree was one of the first four-year degrees to be offered at UVU, it is also dynamic and changing to reach interested students and to add flexibility in meeting individual needs.

The Associate of Applied Science Degree 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 jobs or careers, or be looking for education that may make it possible for them to more successfully launch their own businesses. Students are required to 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. Each portfolio will be reviewed by a committee comprised of professors and technical experts in the student’s discipline to determine the number of experiential credits that will be assigned. Core courses will provide fundamental knowledge of contemporary technologies and elective courses will allow the student to enhance the technical skills in one or more technical areas. A supervisory course is also required so students can learn to manage workers in technologically intensive organizations.

If we can be of service to you in any way, please feel free to contact us.

CAREER OPPORTUNITIES
Multiple opportunities exist for students completing the Technology Management degree in corporate and operations management; as business owners, project managers, site superintendents, marketing and sales representatives, supervisors, and chief project officers. State agencies and the U.S. military also hire Technology Management graduates.

Based on survey data, salaries range from $40,000 to $110,000. Companies seeking globally competitive managers, who have experience and knowledge of both the analytic and applied aspects of professional management, are especially interested in our graduates.

The AAS Degree in Technology provides students the opportunity to move into supervisory positions or for continuing their education into the BS Degree in Technology Management.

Programs

AAS in Technology

General Education Requirements: 63 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 1015</td>
<td>Technical Math—Algebra</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1030</td>
<td>Quantitative Reasoning (Statistics)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra (Math)</td>
<td>3.0</td>
</tr>
<tr>
<td>BIOL</td>
<td>Biology / Physical Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ENV</td>
<td>Health / PE / Safety / Environment</td>
<td>1.0</td>
</tr>
<tr>
<td>HUM</td>
<td>Humanities / Fine Arts</td>
<td>3.0</td>
</tr>
<tr>
<td>TECH 2000</td>
<td>Technology and Human Life</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 23 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 1000</td>
<td>Experiential Credit Portfolio</td>
<td>2.0</td>
</tr>
<tr>
<td>INFO 1100</td>
<td>Exploring the Digital Domain</td>
<td>3.0</td>
</tr>
<tr>
<td>TECH 110R</td>
<td>Technical Experiential Credit (1.0)</td>
<td>6.0</td>
</tr>
<tr>
<td>TECH 1010</td>
<td>Understanding Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>TECH 2010</td>
<td>Supervision in Technology</td>
<td>3.0</td>
</tr>
</tbody>
</table>
| Technical Area Credits - With advisor approval, students must select a minimum of 6 credits. See catalog for 2-year AAS programs for course selections.

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>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 110R</td>
<td>Technical Experiential Credit (Maximum of 10 in addition to the core)</td>
<td>1.0</td>
</tr>
<tr>
<td>ANTH 1100</td>
<td>Social/Cultural Anthropology (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>BIOL 1010</td>
<td>General Biology (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>BIOL 1015</td>
<td>General Biology Laboratory (1.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>BIOL 1070</td>
<td>Heredity (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>CHEM 1010</td>
<td>Introduction to Chemistry (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>CHEM 1110</td>
<td>Elementary Chemistry (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>CHEM 1115</td>
<td>Elementary Chemistry Laboratory (1.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>CLS 1000</td>
<td>University Student Success (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>CLS 1200</td>
<td>The 7 Habits of Highly Effective People (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 1050</td>
<td>Introduction to Speech Communication (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 1500</td>
<td>Introduction to Mass Communication (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 2010</td>
<td>Mass Communication and Society (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGR 1000</td>
<td>Introduction to Engineering (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>ENV 1110</td>
<td>Introduction to Environmental Management (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>ENV 1150</td>
<td>Hazardous Materials Emergency Response (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>ENV 2600</td>
<td>Skills for Humanitarian Projects (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>GEO 1010</td>
<td>Introduction to Geology (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>GEO 1015</td>
<td>Introduction to Geology Laboratory (1.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>MAT 1010</td>
<td>Intermediate Algebra (4.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>PHSC 1000</td>
<td>Survey of Physical Science (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>PHYS 1010</td>
<td>Elementary Physics (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>PHYS 3800</td>
<td>Energy use on Earth (3.0)</td>
<td>3.0</td>
</tr>
</tbody>
</table>
| Foreign Language Credits - Students may select up to 10 credits of a foreign language

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 department 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.

BS in Technology Management

Matriculation Requirements: 45 Credits
Students must complete 45 technical credits:

• See specific Technical Area for the 45 credit requirement.
• See Technology Management Emphasis in Integrated Technology.

General Education Requirements: 35 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 1015</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 (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History to 1877 (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>CET 1110</td>
<td>Introduction to American History (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>CCHV 2910</td>
<td>Introduction to Communication (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>CCHV 2930</td>
<td>Introduction to Technology (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>CCHV 2930</td>
<td>Introduction to Science and Technology (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History to 1877 (3.0)</td>
<td>3.0</td>
</tr>
</tbody>
</table>

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Catalog 2011-2012
Utah Valley University
Technology Management

Graduation Requirements:
1. Complete 3.0 credits in Physical Science (3.0)
2. Complete an additional 3 credits from AVC 3210, AVSC 3120, or AVSC 410G

Emphasis in Automotive Technology
45 Credits

Emphasis Requirements:
- AUT 1110 3.0
- AUT 111L 1.0
- AUT 1120 2.0
- AUT 112L 1.0
- AUT 1130 2.0
- AUT 113L 1.0
- AUT 1160 2.0
- AUT 116L 1.0
- AUT 1170 2.0
- AUT 117L 1.0
- AUT 1210 2.0
- AUT 121L 1.0
- AUT 1220 2.0
- AUT 122L 1.0
- AUT 1230 2.0
- AUT 123L 2.0
- AUT 2110 2.0
- AUT 2120 2.0
- AUT 2130 2.0
- AUT 2140 2.0
- AUT 2210 2.0
- AUT 2220 2.0
- AUT 2240 2.0
- AUT 2250 2.0
- AUT 2350 2.0

Complete 5 credits from the following:
- AUT 201L 3.0
- AUT 202L 3.0
- AUT 203L 3.0
- AUT 204L 3.0

Graduation Requirements:
1. Completion of a minimum of 125 semester credits
2. Overall grade point average of 2.0 (C) or above.
3. No grade lower than a C- in any TECH course.
4. Residence 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.

Emphasis in Aviation Science
45 Credits

Emphasis Requirements:
- AVSC 1010 3.0
- AVSC 1050 3.0
- AVSC 1100 3.0
- AVSC 1110 3.0
- AVSC 2120 3.0
- AVSC 2130 3.0
- AVSC 2140 3.0
- AVSC 2160 3.0
- AVSC 2310 3.0
- AVSC 2440 3.0
- AVSC 2450 3.0
- AVSC 2460 3.0
- AVSC 2500 3.0
- AVSC 2510 3.0

Complete 9 credits from the following:
- AVSC 2400 2.0
- AVSC 2410 2.0
- AVSC 2420 2.0
- AVSC 2430 2.0
- AVSC 2500 2.0
- AVSC 2510 2.0
- AVSC 2560 2.0
- AVSC 2590 2.0

Elective Requirements:
- 9 Credits

Emphasis in Cabinetry and Architectural Woodwork
45 Credits

Emphasis Requirements:
- ART 1120 3.0
- ART 1400 3.0
- ART 1110 3.0

Complete 45 credits from the following:
- CAV 1130 4.0
- CAV 1140 4.0
- CAV 1150 4.0
- CAV 1170 4.0
- CAV 1210 4.0
- CAV 2300 4.0
- CAV 2310 4.0
- CAV 2360 4.0
- CAV 2400 4.0
- CAV 2450 4.0
- CAV 2490 4.0
- CAV 2590 4.0
- CAV 3120 4.0
- CAV 3210 4.0
- CAV 3260 4.0
- CAV 3310 4.0
- CAV 3360 4.0
- CAV 3590 4.0

Elective Requirements:
- 30 Credits

Emphasis in Building Construction and Construction Management
46 Credits

Emphasis Requirements:
- BIT 1010 3.0
- BIT 1170 3.0
- BIT 1230 3.0
- BIT 1240 3.0
- BIT 1330 3.0
- BIT 1380 3.0
- BCCM 1110 3.0
- BCCM 1120 3.0
- BCCM 1150 3.0
- BCCM 1190 3.0
- BCCM 1240 3.0
- BCCM 1250 3.0
- EDGT 1400 3.0
- EDGT 1600 3.0
- ESPO 2030 3.0

Complete 45 credits from the following:
- BIT 1010 3.0
- BIT 1170 3.0
- BIT 1230 3.0
- BIT 1240 3.0
- BIT 1330 3.0
- BIT 1380 3.0
- BCCM 1110 3.0
- BCCM 1120 3.0
- BCCM 1150 3.0
- BCCM 1190 3.0
- BCCM 1240 3.0
- BCCM 1250 3.0
- EDGT 1400 3.0
- EDGT 1600 3.0
- ESPO 2030 3.0

Emphasis in Building Inspection and Technology
45 Credits

Emphasis Requirements:
- BIT 1010 3.0
- BIT 1170 3.0
- BIT 1230 3.0
- BIT 1240 3.0
- BIT 1330 3.0
- BIT 1380 3.0
- BCCM 1110 3.0
- BCCM 1120 3.0
- BCCM 1150 3.0
- BCCM 1190 3.0
- BCCM 1240 3.0
- BCCM 1250 3.0
- EDGT 1400 3.0
- EDGT 1600 3.0
- ESPO 2030 3.0

Complete 45 credits from the following:
- BIT 1010 3.0
- BIT 1170 3.0
- BIT 1230 3.0
- BIT 1240 3.0
- BIT 1330 3.0
- BIT 1380 3.0
- BCCM 1110 3.0
- BCCM 1120 3.0
- BCCM 1150 3.0
- BCCM 1190 3.0
- BCCM 1240 3.0
- BCCM 1250 3.0
- EDGT 1400 3.0
- EDGT 1600 3.0
- ESPO 2030 3.0
Technology Management

Emphasis in Carpenter Union Apprentice (JATC) 45 Credits

Emphasis Requirements: 45 Credits
- APPR 1800 Carpenter Apprentice 1A 5.0
- APPR 1810 Carpenter Apprentice 1B 5.0
- APPR 1820 Carpenter Apprentice 2A 5.0
- APPR 1830 Carpenter Apprentice 2B 5.0
- APPR 1840 Carpenter Apprentice 3A 5.0
- APPR 1850 Carpenter Apprentice 3B 5.0
- APPR 1860 Carpenter Apprentice 4A 5.0
- APPR 1870 Carpenter Apprentice 4B 5.0
- BCCM 281R Cooperative Work Experience (Must be repeated 4 times) (1.0)
- BCCM 285R Cooperative Correlated Class 1.0

Emphasis in Collision Repair Technology 45 Credits

Emphasis Requirements: 45 Credits
- AUT 1160 Automotive Electrical Systems 2.0
- AUT 116L Automotive Electrical Systems Lab 1.0
- AUT 2240 Heating Ventilation Air Conditioning and Refrigeration Theory 2.0
- AUT 224L Automotive HVAC Lab 1.0
- CRT 1110 Surface Preparation 2.0
- CRT 111L Surface Preparation Lab 1.0
- CRT 1120 Nonstructural Repair 2.0
- CRT 112L Nonstructural Repair Lab 1.0
- CRT 1130 Overall Refinishing and Problem Solving 2.0
- CRT 113L Overall Refinishing and Problem Solving Lab 1.0
- CRT 1140 Panel Replacement and Adjustment Lab 2.0
- CRT 114L Panel Replacement and Adjustment 2.0
- CRT 1210 Blending Tinting and Detailing 2.0
- CRT 121L Blending Tinting and Detailing Lab 1.0
- CRT 1220 Welding and Cutting 2.0
- CRT 123L Welding and Cutting Lab 1.0
- CRT 2310 Collision Damage Reporting 2.0
- CRT 231L Collision Damage Reporting Lab 1.0
- CRT 2320 Structural Damage Analysis 2.0
- CRT 232L Structural Damage Analysis Lab 1.0
- CRT 2330 Structural Repair 2.0
- CRT 2340 Structural Repair Lab 1.0
- CRT 2340 Full and Partial Panel Replacement 2.0
- CRT 234L Full and Partial Panel Replacement Lab 2.0
- CRT 2400 Plastic Paintless Dent Repair 2.0
- CRT 240L Plastic Paintless Dent Repair Lab 1.0
- CRT 2440 Mechanical Advanced Vehicle Systems 2.0
- CRT 244L Mechanical Advanced Vehicle Systems Lab 1.0
- CRT 2450 Bags Brakes Steering 2.0
- CRT 245L Bags Brakes Steering Lab 1.0

Emphasis in Construction Management 45 Credits

Emphasis Requirements: 45 credits
- BIT 1020 Residential Codes 3.0
or BIT 1010 Building Codes (3.0)
- CMGT 1160 Building Information Modeling (Highly recommended) 3.0
or EGDT 1020 Principles of Construction Scheduling (3.0)
- EGDT 1100 Architectural Drafting (3.0)
or EGDT 1090 Introduction to Architecture Drafting (3.0)
- EGDT 1400 Surveying 4.0
- CMGT 1010 Introduction to Construction Management 3.0
- CMGT 2010 Construction Materials and Methods II 3.0
- CMGT 3000 Principles of Construction Scheduling 3.0
- CMGT 3030 Principles of Construction Estimating 3.0
- CMGT 3040 Construction Job Site Management 3.0
- Select 20 credits from BCCM, BIT, CMGT, EGDT, 20.0 GIS, SURV, or similar transfer credits as approved by TM advisor.

Emphasis in Diesel Mechanics Technology 48 Credits

Emphasis Requirements: 48 Credits
- DMT 1110 Diesel Engine Overhaul 4.0

Emphasis in Digital Media 45 Credits

Emphasis Requirements: 17 Credits
Complete the following:
- DGM 1110 Digital Media Essentials I 3.0
- 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: 28 Credits
Complete 28 credits from approved DGM electives (see advisor)

Emphasis in Drafting Technology 45 Credits

Emphasis Requirements: 45 Credits
Complete the following:
- EGDT 1010 Electrical-Electronic Drafting 3.0
- EGDT 1020 Computer Aided Drafting—AutoCAD 3.0
- EGDT 1070 3 Dimensional Computer Modeling 3.0
- EGDT 1080 AutoLisp 2.0
- EGDT 1100 Architectural Drafting 3.0
- EGDT 1200 Mechanical Drafting 3.0
- EGDT 1300 Structural Drafting 3.0
- EGDT 1400 Surveying 4.0
- EGDT 2020 Descriptive Geometry 3.0
- EGDT 2040 Piping Drafting 2.0
- EGDT 2050 Plate Layout 2.0
- EGDT 2600 Statics 3.0
- EGDT 2610 Jig and Tools of Materials 3.0
Complete 8 credits from the following:
- EGDT 1060 MicroStation (2.0)
- EGDT 2100 Advanced Architectural (3.0)
- EGDT 2200 Advanced Mechanical—CAD (3.0)
- EGDT 2300 Advanced Structural—CAD (3.0)
- EGDT 2310 Structural Steel Modeling (3.0)
- EGDT 2400 Surveying Applications (4.0)

Emphasis in Electrical Automation and Robotics Technology 45 Credits

Emphasis Requirements: 44 Credits
Complete the following:
- EART 1130 Basic Electrical 4.0
- EART 1050 Applied Electrical Math 5.0
- EART 1180 Basic Electrical Lab 5.0
- EART 1260 Logic 2.0
- EART 1280 DC and AC Machines 5.0
- EART 1285 DC and AC Machines Labs 4.0
- EART 2110 Semiconductors Devices 6.0
- EART 2150 Hydraulics and Pneumatics 3.0
- EART 2160 Programmable Logic Controllers I 5.0

Elective Requirements: 1 Credits
Electives in EART based on chosen option (students must see advisor for list of approved course options).

Emphasis in Electrical Construction Apprentice 45 Credits

Emphasis Requirements: 45 Credits
- APPR 281R Cooperative Work Experience (Must be repeated 4 times) (1.0)
or
- APPR 285R Cooperative Correlated Class 1.0
- EART 1110 Electrical Apprentice 1A 5.0

Emphasis in Electrical Union Apprentice (JATC) 45 Credits

Emphasis Requirements: 45 Credits
Complete 45 credits from the following:

Emphasis in Emergency Services 45 Credits

Emphasis Requirements: 45 Credits
Complete 45 credits from the following:

Emphasis in Facilities Management 45 Credits

Emphasis Requirements: 45 credits
- BCCM 1120 Blueprint Reading 2.0
- BCCM 1170 Principles of Mechanical Engineering and Plumbing Design 2.0
- BCCM 299R Skills USA 1.0
- CMGT 3000 Principles of Construction 3.0
- BIT 1010 Building Codes 3.0
- BIT 1240 Plumbing Codes 3.0
- BIT 1330 Mechanical Codes 3.0
- BIT 1340 Electrical Codes 3.0
- EGDT 1020 3D Architectural Modeling 3.0
- EGDT 1600 Technical Math—Algebra 3.0
- ENVT 1200 Environmental Worker Safety 3.0
- FAC 281R Cooperative Work Experience 8.0
- FAC 285R Cooperative Correlated Class (Must be repeated) (1.0)
- MGM 2280 Business Communication 3.0

Emphasis in HVAC Apprentice 45 Credits

Emphasis Requirements: 45 Credits
Complete 45 credits from the following:
- ACRT 281R Cooperative Work Experience 4.0
- ACRT 285R Cooperative Correlated Class (Must be repeated 4 times) (1.0)
- ACRT 285R Cooperative Correlated Class 1.0
- HVAC 1130 HVAC 1B 5.0
- HVAC 1150 HVAC 2B 5.0
- HVAC 1170 HVAC 3B 5.0
- HVAC 1190 HVAC 4B 5.0
- HVAC 1200 HVAC 1A 5.0
- HVAC 1220 HVAC 2A 5.0
- HVAC 2200 HVAC 3A 5.0
- HVAC 2220 HVAC 4A 5.0

Emphasis in Industrial Maintenance Apprentice 45 Credits

Emphasis Requirements: 45 Credits
Complete 10 credits from the following:
- EART 1020 Industrial Maintenance 4A (5.0)
- HVAC 1110 Industrial Maintenance 4D (5.0)
- WELD 1300 Industrial Maintenance 3B (5.0)
- WELD 1350 Industrial Maintenance 3D (5.0)
Complete 10 credits from the following:
- EART 1020 Industrial Maintenance 4A (5.0)
- HVAC 1110 Industrial Maintenance 4D (5.0)
- WELD 1300 Industrial Maintenance 3B (5.0)
- WELD 1350 Industrial Maintenance 3D (5.0)
### Emphasis in Information Systems and Technology

**Emphasis Requirements:** 45 Credits

- INFO 1120 Information Systems and Technology Fundamentals 3.0
- INFO 1200 Computer Programming I for IS/IT 3.0
- IT 1510 Introduction to System Administration—Linux/UNIX 3.0
- IT 1600 Computer Architecture and Systems Software 3.0
- INFO 2030 Data Communication Fundamentals 3.0
- INFO 2050 Database Fundamentals 3.0
- INFO 2200 Computer Programming II for IS/IT 3.0
- INFO 2450 Web Application Design 3.0
- INFO 3410 Database Systems 3.0
- INFO 3430 Systems Analysis and Design 3.0
- IT 3600 Networks and Internetworking 3.0

**Elective Requirements:** 12 Credits

Complete a minimum of 12 credits from the following:
- INFO 1000 Computer Programming Concepts (3.0)
- INFO 1100 Exploring the Digital Domain (3.0)
- INFO 2100 Business Computer Productivity with IS Technology (3.0)
- IT 2400 Voice and Data Cabling Fundamentals (3.0)
- IT 2450 Router Management (3.0)
- IT 2530 System Administration—Windows (3.0)
- IT 2700 Information Security Fundamentals (3.0)
- INFO 281R Internetworking (1.0)
- COMP 301R Digital Lecture Series (1.0)
- INFO 3420 Web Systems Development I (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- IT 3510 Advanced System Administration—Linux/UNIX (3.0)
- IT 3530 Advanced System Administration—Windows Server (3.0)
- IT 3700 Information Security—Network Defense and Countermeasures (3.0)
- Any approved Accounting- or Business-related Course up to 6 credits

**Emphasis in Integrated Technology**

**Emphasis Requirements:** 45 Credits

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:
- Art & Visual Communication
- Graphic Communications
- Photography
- Visual Arts
- Automotive Technology
- Collision Repair
- Diesel Equipment Repair
- Aviation
- Construction Technologies
- Building Construction
- Building Inspection
- Cabinetry
- Carpentry
- Drafting
- Facilities Management
- HVAC
- Masonry
- Mechanics
- Plumbing
- Surveying
- Welding
- Computing/Digital Technologies
- Broadcasting
- Computer Science
- Computer Support
- Digital Media
- Internetworking
- Information Systems
- Office Technology
- Technical Computer Applications
- Web Design
- Electronics Technology
- Electrical Automation
- Electrician
- Industrial Motor Controls

### Emphasis in Lineman Technology

**Emphasis Requirements:** 51 Credits

- LINE 1110 Lineman DC Theory and Lab 4.0
- LINE 1120 Residential Wiring 2.0
- LINE 1130 Lineman Applied DC Math 3.0
- LINE 1140 Basic Skill Development and Safety 4.0
- LINE 1210 AC Theory and Transformer Applications 4.0
- LINE 1220 Commercial Wiring 2.0
- LINE 1230 Lineman Applied AC Math 3.0
- LINE 1240 Single-Phase Lines and Safety 4.0
- LINE 2310 Powerline Technician and Safety Code I 4.0
- LINE 2320 Industrial Wiring 2.0
- LINE 2330 Single and Polyphase Metering 2.0
- LINE 2340 Three-Phase Lines and Safety 5.0
- LINE 2410 Powerline Technician and Safety Code II 4.0
- LINE 2430 Substation Equipment 4.0
- LINE 2440 High Voltage Substation and Safety 4.0
- Lineman Technology
- Residential Wiring
- Manufacturing Technology
- Robotics
- Environmental Technology
- Machinist
- Materials Science
- Operations Technology
- Power Equipment Technology
- Precision Machining
- Technical Drafting
- Medical Technologies
- Biotechnology Technician
- Culinary Arts
- Dental Hygiene
- Health Care
- Medical Coding and Billing
- Occupational Therapy
- Pharmacy Technician
- Physical Therapy
- Radiology Technology

**Public Service Technologies**
- Criminal Justice
- Firefighting
- Paralegal

### Emphasis in Line Meter Apprentice

**Emphasis Requirements:** 48 Credits

- LINE 1600 Meter Apprentice 1A 6.0
- LINE 1610 Meter Apprentice 1B 6.0
- LINE 1620 Meter Apprentice 2A 6.0
- LINE 1630 Meter Apprentice 2B 6.0
- LINE 2600 Meter Apprentice 3A 6.0
- LINE 2610 Meter Apprentice 3B 6.0
- LINE 2620 Meter Apprentice 4A 6.0
- LINE 2630 Meter Apprentice 4B 6.0

### Emphasis in Lineman Substation Apprentice

**Emphasis Requirements:** 48 Credits

- LINE 1500 Lineman Substation Apprentice 1A 6.0
- LINE 1510 Lineman Substation Apprentice 1B 6.0
- LINE 1520 Lineman Substation Apprentice 2A 6.0
- LINE 1530 Lineman Substation Apprentice 2B 6.0
- LINE 2500 Lineman Substation Apprentice 3A 6.0
- LINE 2510 Lineman Substation Apprentice 3B 6.0
- LINE 2520 Lineman Substation Apprentice 4A 6.0
- LINE 2530 Lineman Substation Apprentice 4B 6.0

### Emphasis in Lineman Technology

**Emphasis Requirements:** 51 Credits

- LINE 1110 Lineman DC Theory and Lab 4.0
- LINE 1120 Residential Wiring 2.0
- LINE 1130 Lineman Applied DC Math 3.0
- LINE 1140 Basic Skill Development and Safety 4.0
- LINE 1210 AC Theory and Transformer Applications 4.0
- LINE 1220 Commercial Wiring 2.0
- LINE 1230 Lineman Applied AC Math 3.0
- LINE 1240 Single-Phase Lines and Safety 4.0
- LINE 2310 Powerline Technician and Safety Code I 4.0
- LINE 2320 Industrial Wiring 2.0
- LINE 2330 Single and Polyphase Metering 2.0
- LINE 2340 Three-Phase Lines and Safety 5.0
- LINE 2410 Powerline Technician and Safety Code II 4.0
- LINE 2430 Substation Equipment 4.0
- LINE 2440 High Voltage Substation and Safety 4.0

### Emphasis in Lineman Technology

**Emphasis Requirements:** 45 Credits

- APPR 1410 Plumbing Independent 1A 5.0
- APPR 1420 Plumbing Independent 1B 5.0
- APPR 1430 Plumbing Independent 2A 5.0
- APPR 1440 Plumbing Independent 2B 5.0
- APPR 1450 Plumbing Independent 3A 5.0
- APPR 1460 Plumbing Independent 3B 5.0
- APPR 1470 Plumbing Independent 4A 5.0
- APPR 1480 Plumbing Independent 4B 5.0

- BCCM 285R Cooperative Work Experience (Must be repeated 4 times) (1.0)
- BCCM 285R Cooperative Work Experience (1.0)

### Emphasis in Sheet Metal Apprentice

**Emphasis Requirements:** 48 Credits

- IT 1110 Sheet Metal 1A 6.0
- APPR 1120 Sheet Metal 1B 6.0
- APPR 1210 Sheet Metal 2A 6.0
- APPR 1220 Sheet Metal 2B 6.0
- APPR 2310 Sheet Metal 3A 6.0
- APPR 2320 Sheet Metal 3B 6.0
- APPR 2410 Sheet Metal 4A 6.0
- APPR 2420 Sheet Metal 4B 6.0

### Minor in Technology Management

**Discipline Core Requirements:** 15 Credits

- TECH 3000 Introduction to Technology Management 3.0
- TECH 3400 Project Management 3.0
- TECH 3850 Quality Assurance in Technology 3.0
- TECH 4000 Reliability Engineering and Safety 3.0
- TECH 4420 Organization Information Technologies 3.0

**Elective Requirements:** 6 Credits

Select 6 credits from the following:
- TECH 3010 Creativity Innovation and Change Management (3.0)
- TECH 3700 Materials Management (3.0)
- TECH 4050 Global Ethical and Professional Issues in Technology (3.0)
- TECH 4200 Technology Marketing and Distribution (3.0)
- TECH 4400 Advanced Project Management (3.0)
- TECH 4820 Current Topics in Technology Management (2.0)
- TECH 497R Independent Study - May select between 1 and 4 credits (1.0)

### BA/BS in Integrated Studies

**123 Credits**

The following Integrates Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

### Emphasis in Technology Management

**Emphasis Requirements:** 18 Credits

- Completion of an AA or AS degree with at least 25 credits in a technical specialty.
- Complete 18 credits from the following: 18.0
- TECH 3000 Introduction to Technology Management (3.0)
- TECH 3010 Creativity Innovation and Change Management (3.0)
- TECH 301R Technology Lecture Series (1.0)
- TECH 3400 Project Management (3.0)
- TECH 3700 Materials Management (3.0)
- TECH 3850 Quality Assurance in Technology (3.0)
- TECH 4050 Global Ethical and Professional Issues in Technology (3.0)
- TECH 4000 Reliability Engineering and Safety (3.0)
- TECH 4200 Technology Marketing and Distribution (3.0)
- TECH 4400 Advanced Project Management (3.0)
- TECH 4420 Organization Information Technologies (3.0)
- APPR 1110 Sheet Metal 1A 6.0
- APPR 1120 Sheet Metal 1B 6.0
- APPR 1210 Sheet Metal 2A 6.0
- APPR 1220 Sheet Metal 2B 6.0
- APPR 2310 Sheet Metal 3A 6.0
- APPR 2320 Sheet Metal 3B 6.0
- APPR 2410 Sheet Metal 4A 6.0
- APPR 2420 Sheet Metal 4B 6.0
Technology Management

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- TECH, Technology Management
The Theatrical Arts for Stage & Screen

Department Chair: James Arrington
Office: FA 705
Telephone: 801-863-7157

Theatrical Arts for Stage & Screen

Faculty:
- Associate Professor
  - James Arrington
  - Terry Petrie
  - Assistant Professor
  - Chris Clark
  - John Newman
  - Lecturer
  - Rick Moody
  - Stephen Purdy
  - Joseph Fox
  - Jill Robinson
  - Art in Residence
  - David Tinney

Administrative Staff
- Don Parker, Scene Shop Foreman
- John Newman, Youth Theater Program Director
- Eileen Nagle, Noorda Center Administrative Assistant
- Carla Summers, Costume Shop Supervisor
- Isaacs Walters, Noorda Media and Marketing Director

Advisors: Rae Ann Ellis
Office: GT 619c
Telephone: 801-863-6412

School of the Arts
Dean: K. Newell Dayley
Office: GT 605a
Telephone: 801-863-7359

The Department of Theatrical Arts for Stage and Screen offers programs of study leading to the Associate in Science degree and to three baccalaureate degrees – Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Theatre Arts Education. 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 six to ten 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, dramaturgy, arts administration, 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.

CAREER OPPORTUNITIES
Those jobs traditionally associated with theatre are shown below:
- 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
- theatre administrators

Additionally, it is not infrequently that graduates find work in the related areas of broadcasting, motion pictures, and television - particularly those graduates with education in the technical areas of the discipline.

PROGRAMS

AS Pre Major in Theatre Arts 63 CREDITS
General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 1020 Intermediate Writing – Humanities/Social Sciences (3.0)

or ENGL 2010 Intermediate Writing – Science and Technology (3.0)
Complete one of the following:
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)

BA in Theatre Arts 120 CREDITS
General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 1020 Intermediate Writing – Humanities/Social Sciences (3.0)

or ENGL 2010 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 1700 American Civilization (3.0)
- HIST 2700 US History to 1877 (3.0)

NOTES
- PRODUCTION PARTICIPATION: THEA 159R and THEA 259R - Production Practicum courses are required for all AS Theatrical Arts majors and theatre scholarship recipients. Credit for these 1-credit, repeatable courses is awarded for crew work completed on UVU Theatrical Arts productions. Students should ideally diversify their crew experiences. Students should enroll for THEA 159R two times for the first 2 semesters and THEA 259R two times for the 3rd and 4th semesters for a maximum of 4 credits toward graduation. Students should contact the course instructor for specifics.
- PERFORMANCE PARTICIPATION: AS All Theatrical Arts students are required to attend department auditions at the beginning of each semester. Students who are cast in a production are awarded one credit of THEA 219R - Performance Practicum - per production. Add cards are available in the Theatre Office, FA 705. It is the responsibility of the student to obtain the necessary instructor signature and to return the signed card to the Production Stage Manager or to the Theatre Office.

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.

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Those jobs traditionally associated with theatre are shown below:
- 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
- theatre administrators

Additionally, it is not infrequently that graduates find work in the related areas of broadcasting, motion pictures, and television - particularly those graduates with education in the technical areas of the discipline.

PROGRAMS

AS Pre Major in Theatre Arts 63 CREDITS
General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 1020 Intermediate Writing – Humanities/Social Sciences (3.0)

or ENGL 2010 Intermediate Writing – Science and Technology (3.0)
Complete one of the following:
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)

BA in Theatre Arts 120 CREDITS
General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 1020 Intermediate Writing – Humanities/Social Sciences (3.0)

or ENGL 2010 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 1700 American Civilization (3.0)
- HIST 2700 US History to 1877 (3.0)
Theatrical Arts for Stage & Screen

and HIST 2710 US History since 1877 (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1050 College Algebra (4.0)
- 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 (202G foreign language course (4.0))
- THEA 1013 Introduction to Theatre (4.0)
- Social/Behavioral Science (3.0)

Discipline Core Requirements: 36 Credits
- THEA 1033 Fundamentals of Acting I (3.0)
- THEA 1513 Stagecraft for Stage and Screen I (3.0)
- THEA 159R Production Practicum for Stage and Screen I (1.0)
- THEA 1713 Script and Text Analysis (3.0)
- THEA 2513 Introduction to Design for Stage and Screen (3.0)
- THEA 259R Production Practicum for Stage and Screen II (1.0)
- THEA 2600 Introduction to Theatre and Drama (3.0)
- THEA 359R Production Practicum for Stage and Screen III (1.0)
- THEA 3613 Directing (3.0)
- THEA 3633 Introduction to Stage Management I (3.0)
- THEA 3723 Theatre History and Literature I (3.0)
- THEA 3733 Theatre History and Literature II (3.0)
- THEA 481R Theatre Internship (1.0)
- THEA 4993 Senior Project (3.0)

Emphasis:
Complete one of the following:
- Design and Technology
  - Theatre Arts for Stage & Screen (24.0)
- Performance
  - Theatre Arts for Stage & Screen (24.0)

Elective Requirements: 24 Credits
- One Foreign Language (12.0)
- Any courses 1000 or higher (12.0)

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.
3. Residency hours - minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.

Emphasis in Design and Technology
24 Credits

Emphasis Requirements: 24 Credits
Complete 18 credits of the following:
- THEA 3203 Costume Construction II (3.0)
- THEA 3223 Makeup II (3.0)
- THEA 3513 Set and Prop Construction and Painting (3.0)
- THEA 3533 Lighting and Sound Design I (3.0)
- THEA 3553 Period Styles for Theatre Design (3.0)
- THEA 3700 Script and Text Analysis II (3.0)

- THEA 374R New Script Workshop (3.0)
- THEA 3753 Script Writing II (3.0)
- THEA 4123 Costume Design II (3.0)
- THEA 4233 Costume Design III (3.0)
- THEA 4513 Sets and Properties Design (3.0)
- THEA 4533 Advanced Lighting Design (3.0)
- THEA 457R Special Projects in Design for Stage and Screen (1.0)
- THEA 4633 Theatre Administration (3.0)
- THEA 497R Professional Topics (1.0)
- THEA 4981 Portfolio (1.0)

Emphasis in Performance
24 Credits

Emphasis Requirements: 24 Credits
Complete 18 credits of the following:
- THEA 3113 Acting for Film (3.0)
- THEA 3123 Stage Dialogue (3.0)
- THEA 3413 Acting for Musical Theatre I (3.0)
- THEA 3423 Acting for Musical Theatre II (3.0)
- THEA 3523 Advanced Direction of Actors for Theater (3.0)
- THEA 3700 Ethics and Values (3.0)
- THEA 374R New Script Workshop (3.0)
- THEA 3753 Script Writing II (3.0)
- THEA 4133 Auditioning (3.0)
- THEA 4123 Acting Styles (3.0)
- THEA 458R Special Topics in Theatre (1.0)
- THEA 4713 Script Writing III (3.0)
- THEA 497R Professional Topics (1.0)

Emphasis in Theatre Arts Education
122 Credits

Emphasis Requirements: 24 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)

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)
- 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 (3.0)
- THEA 1013 Introduction to Theatre (3.0)
- Social/Behavioral Science (3.0)

Discipline Core Requirements: 36 Credits
- THEA 1033 Fundamentals of Acting I (3.0)
- THEA 1513 Stagecraft for Stage and Screen I (3.0)
- THEA 159R Production Practicum for Stage and Screen I (1.0)
- THEA 1713 Script and Text Analysis (3.0)
- THEA 2513 Introduction to Design for Stage and Screen (3.0)
- THEA 259R Production Practicum for Stage and Screen II (1.0)
- THEA 2600 Introduction to Theatre and Drama (3.0)
- THEA 359R Production Practicum for Stage and Screen III (1.0)
- THEA 3613 Directing (3.0)
- THEA 3633 Introduction to Stage Management I (3.0)
- THEA 3723 Theatre History and Literature I (3.0)
- THEA 3733 Theatre History and Literature II (3.0)
- THEA 481R Theatre Internship (1.0)
- THEA 4993 Senior Project (3.0)

Emphasis:
Complete one of the following:
- Design and Technology
  - Theatre Arts for Stage & Screen (24.0)
- Performance
  - Theatre Arts for Stage & Screen (24.0)

Elective Requirements: 25 Credits
- Any courses 1000 or higher (25.0)

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.
3. Residency hours - minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.

Emphasis in Theatre Arts Education
122 Credits

Distribution Requirements:
1. PRAXIS I Pre-Professional Skills Test (PPST) scores of Reading 170 and Mathematics 173 or higher.
2. GPA of 2.75 or higher.
3. Completion of all General Education requirements and required pre-professional education courses.
4. An interview directed by the Teacher Education Selection and Retention Committee.
5. Pass criminal background check.

General Education Requirements: 36 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)
- 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 (3.0)
- THEA 1013 Introduction to Theatre (3.0)
- Social/Behavioral Science (3.0)

Discipline Core Requirements: 77 Credits

Complete the following:
- THEA 1033 Fundamentals of Acting I (3.0)
- THEA 1513 Stagecraft for Stage and Screen I (3.0)
- THEA 159R Production Practicum for Stage and Screen I (1.0)
- THEA 1713 Script and Text Analysis (3.0)
- THEA 2513 Introduction to Design for Stage and Screen (3.0)
- THEA 2713 Introduction to Writing for the Stage and Screen (3.0)
- THEA 259R Production Practicum for Stage and Screen II (1.0)
- THEA 3503 Stagecraft II (3.0)
- THEA 3613 Directing (3.0)

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- **THEA 359R** Production Practicum for Stage and Screen III (1.0)
- **THEA 3623** Advanced Direction of Actors for Theater
- **THEA 3633** Introduction to Stage Management I 3.0
- **THEA 3723** Theatre History and Literature I 3.0
- **THEA 3733** Theatre History and Literature II 3.0
- **THEA 4200** Theatre and Drama in the Secondary School

Secondary Education Licensure requirements:
- **EDSC 3000** Educational Psychology 3.0
- **EDSC 3050** Foundations of American Education 2.0
- **EDSC 3250** Instructional Media 2.0
- **EDSC 4200** Classroom Management I 2.0
- **EDSC 4250** Classroom Management II 2.0
- **EDSC 4440** Content Area Reading and Writing 3.0
- **EDSC 445G** Multicultural Instruction ESL 3.0
- **EDSC 4550** Secondary Curriculum Instruction and Assessment 3.0
- **EDSC 4850** Student Teaching--Secondary (4.0) 10.0
- **EDSP 3400** Exceptional Students 2.0

**Elective Requirements:** 9 Credits
- Select 9 credits of 1000-level or higher courses.

**Graduation Requirements:**
1. Completion of a minimum of 122 semester credits, 40 of which must be upper division.
2. Overall grade point average of 2.75 or above with no grade lower than a B- in Secondary Education courses.
3. Residency hours - minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.

**Minor in Theatre Arts** 21 Credits

**Matriculation Requirements:**
1. Admitted to a bachelor degree program at UVU.

**Discipline Core Requirements:** 21 Credits
Complete the following courses:
- **THEA 1013** Introduction to Theatre 3.0
- **THEA 1033** Fundamentals of Acting I 3.0
- **THEA 1513** Stagecraft for Stage and Screen I 3.0
- **THEA 1713** Script and Text Analysis 3.0
- **THEA 2513** Introduction to Design for Stage and Screen 3.0
- **THEA 2713** Introduction to Writing for the Stage and Screen 3.0
- **THEA 3613** Directing Actors (3.0)
- **THEA 3633** Introduction to Stage Management I 3.0

**Graduation Requirements:**
1. Complete all theatre courses with a grade of C- or better.

**BA/BS in Integrated Studies** 123 Credits
The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

**Emphasis in Theatre Arts** 18 Credits

**Emphasis Requirements:** 12 Credits
- **THEA 1033** Fundamentals of Acting I 3.0
- **THEA 1513** Stagecraft for Stage and Screen I 3.0
- **THEA 1713** Script and Text Analysis 3.0
- **THEA 3723** Theatre History and Literature I 3.0

**Elective Requirements:** 6 Credits
Complete six credits from 3000 or higher level THEA courses

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- FAMT, Fine Arts, Music, & Theatre
- THEA, Theatre
**University College**

Interim Dean: K.D. Taylor  
Office: LA 210c  
Telephone: 801-863-8949

## PROGRAMS

### AA/AS Pre Major in University Studies

| 60 Credits |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| General Education Requirements: | 35 Credits |
| • ENGL 1010 | Introduction to Writing | 3.0 |
| • ENGL 2010 | Intermediate Writing--Humanities/Social Sciences | 3.0 |
| or ENGL 2020 | Intermediate Writing--Science and Technology (3.0) | 3.0 |
| Complete one of the following: | 3.0 |
| • MATH 1030 | Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0) | 3.0 |
| • MATH 1040 | Introduction to Statistics (recommended for Social Science majors) (3.0) | 3.0 |
| • MATH 1050 | College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0) | 4.0 |
| Complete one of the following: | 3.0 |
| • HIST 1700 | American Civilization (3.0) | 3.0 |
| • HIST 2700 | US History to 1877 (3.0) | 3.0 |
| and HIST 2710 | US History since 1877 (3.0) | 3.0 |
| • HIST 1740 | US Economic History (3.0) | 3.0 |
| • POLS 1000 | American Heritage (3.0) | 3.0 |
| • POLS 1100 | American National Government (3.0) | 3.0 |
| Complete the following: | 3.0 |
| • PHIL 2050 | Ethics and Values | 3.0 |
| or PES 1097 | Fitness for Life | 2.0 |
| Distribution Courses | 17.0 |
| • Biology | 3.0 |
| • Physical Science | 3.0 |
| • Additional Biology or Physical Science | 3.0 |
| • Humanities | 3.0 |
| • Fine Arts | 3.0 |
| • Social/Behavioral Science | 3.0 |

### Discipline Core Requirements: 25 Credits

- Any course(s) 1000 or higher
- One Language (other than English) to include the 1010, 1020, 2010, 202G levels, or transferred

### Graduation Requirements:

1. Completion of a minimum or 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.
### Course Descriptions

<table>
<thead>
<tr>
<th>PREFIX</th>
<th>ACADEMIC SUBJECT</th>
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<tr>
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<td>Air Conditioning and Refrigeration Technology</td>
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<tr>
<td>AERO</td>
<td>Aerospace Science</td>
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The following descriptions may include other important information regarding each course, such as: general education (GE) code, terms offered (Su=Summer, F=Fall, Sp=Spring), or pre- and/or corequisite requirements.

Courses marked with a double asterisk (**) indicate an honors course is available. Some sections of courses marked with a dagger (†) may be applied toward Service Learning credit (see the Student Services section of the catalog for more information).

This sample course is modeled after an actual course, but has been modified for demonstration purposes.

<table>
<thead>
<tr>
<th>Course Prefix and Number</th>
<th>Course Title</th>
<th>Credit Ratio:</th>
<th>Prerequisites are requirements that must be completed prior to registration in the described course.</th>
<th>Corequisites are courses that must be taken concurrently with the described course.</th>
<th>(See your advisor if you have questions about these requirements.)</th>
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<td>PSY 101G **</td>
<td>General Psychology</td>
<td>3:3:0</td>
<td>Prerequisite(s): ENGH 0990, CTRS 0900, and MAT 0990 or equivalent</td>
<td>Corequisite(s): ACC 1150 recommended if required for your degree</td>
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<td>Su, F, Sp</td>
<td>Terms this course may be offered:</td>
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</table>

- Su - Summer
- F - Fall
- Sp - Spring

Distance Education (For a list of courses, please go to www.uvu.edu/disted/)

Description of the course.

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.

These course number designations each have specific meaning if present in the fourth place of a course number:

- G - Fulfills the Global/Intercultural Graduation Requirement
- H - Honors Course
- R - Course can be repeated for credit. Repeat limit is designated in the course description.

SS - General Psychology

This course is cross-listed with the described course.

Indicates that an honors course is available.
Course Descriptions

ACC—Accounting

ACC 1150
Fundamentals of Business Math
3:3:0 F, Sp

- 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.

ACC 1750
Applied Accounting
4:4:0 On Sufficient Demand

- Prerequisite(s): Appropriate placement scores or ENGH 0990 with a grade of C- or higher

Described 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.

ACC 2010
Financial Accounting
3:3:0 Su, F, Sp

- Prerequisite(s): Appropriate placement scores or ENGH 0990 with a grade of C- or higher

Corequisite(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 owner’s equity for sole proprietorships and corporations.

ACC 2020
Managerial Accounting
3:3:0 Su, F, Sp

- Prerequisite(s): ACC 2010

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.

ACC 2030
Principles of Accounting
6:6:0

- Prerequisite(s): Appropriate placement scores or ENGH 0990 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 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.

ACC 2100
Payroll Accounting
3:3:0 F

- Prerequisite(s): ACC 2010 or ACC 2030

Designed for accounting majors and as elective credit for other business majors. Comprehensive coverage of payroll laws, regulations, taxes, compliance, and accounting entries. Laboratory experiences include manual and automated payroll methods.

ACC 2610
Accounting Systems Applications
3:3:1 Sp

- Prerequisite(s): ACC 2010 or ACC 1500, DGM 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 email. Includes Windows operating system, using popular accounting software (QuickBooks, Peachtree). Integrates accounting information with other software programs such as spreadsheets and word processing.

ACC 281R
Cooperative Work Experience
2 to 8:0:10 to 40 Su, F, Sp

- Prerequisite(s): Approval of School of Business Career and Corporate Manager

Corequisite(s): MGMT 2250 or MGMT 4250 if first time

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 opportunity to formulate and complete individualized work experience objectives.

ACC 3010
Intermediate Accounting I
3:3:0 Su, F, Sp

- Prerequisite(s): ACC 2010 or ACC 2030

Reviews and expands on fundamental accounting material learned in beginning classes and to gain a solid understanding of the accounting cycle process. Designed to help the student develop the background necessary to succeed as a professional accountant.

ACC 3020
Intermediate Accounting II
3:3:0 Su, F, Sp

- Prerequisite(s): ACC 3010

Addresses debt and equity financing, investments in debt and equity securities, leases, deferred income taxes, employee compensation (payroll and pensions), earnings per share accounting changes, and error corrections.

ACC 3120
Internal Auditing
3:3:0

- Prerequisite(s): ENGL 1010, MATH 1050 or higher; junior standing and a minimum cumulative GPA of 3.0

Introduces students to the theories of governance, risk, and control concepts; internal auditing standards; audit techniques; and reporting practices. Applicable across disciplines.

ACC 3300
Cost Management
3:3:0 Su, F, Sp

- Prerequisite(s): (ACC 2020 or ACC 2030) and ACC 3010

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.

ACC 3400
Individual Income Tax
3:3:0 Su, F, Sp

- Prerequisite(s): ACC 2010 or ACC 2030

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.

ACC 341R
Tax Return Preparation
1:0.5:2 Sp, F

- Prerequisite(s): Instructor Approval

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 Su, F, Sp
- Prerequisite(s): ACC 3010 and DGM 2010 or business computer proficiency exam
  Teaches analysis design and implementation of accounting information systems. Emphasizes
  accounting cycles, internal controls, and computerized environments.

ACC 4020 Advanced Financial Accounting 3:3:0 Su, F, Sp
- Prerequisite(s): ACC 3020 and Matriculation into the Bachelor's Degree Program
  Presents accounting concepts and methods for business combinations, foreign currency
  transactions, foreign statement translation, and partnerships.

ACC 4030 Governmental and Not-For-Profit Accounting 3:3:0 Su, F, Sp
- Prerequisite(s): ACC 3010 and Advanced Standing in the BS Accounting degree program
  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.

ACC 4110 Auditing 3:3:0 Su, F, Sp
- Prerequisite(s): ACC 3010 and ACC 3300 and Advanced Standing in the BS Accounting degree program
  Teaches auditing concepts and procedures covering examination of financial statements, internal control,
  disclosure, statistical sampling concepts, and EDP auditing techniques.

ACC 4130 Case Studies in Internal Auditing 3:3:0
- Prerequisite(s): ACC 3120 with a grade of "B" or higher
  Covers operational, compliance, and financial auditing. Develops oral communication, teamwork,
  ethical reasoning, and written communication skills by researching, evaluating, and reporting on internal
  auditing topics.

ACC 4140 Advanced Internal Auditing 3:3:0
- Prerequisite(s): ACC 4130 with a grade of 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
- Prerequisite(s): ACC 3300, Matriculation into any Woodbury School of Business bachelor degree program
  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 Sp
- Prerequisite(s): (ACC 2020 or ACC 2030) and Senior Standing in any Woodbury School of Business Bachelor program
  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 Su, F, Sp
- Prerequisite(s): ACC 3400 and Matriculation into the Bachelor's Degree Program
  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.

ACC 4410 Tax Research 3:3:0
- Prerequisite(s): ACC 3400
  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 F, Sp
- Prerequisite(s): ACC 3400
  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 Sp
- Prerequisite(s): ACC 3400
  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
- Prerequisite(s): ACC 3400
  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 On Sufficient Demand
- Prerequisite(s): ACC 3510 and Matriculation into any Woodbury School of Business program
  Provides students 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.

ACC 470R Current Topics in Accounting 1 to 3:1 to 3:0 On Sufficient Demand
- Prerequisite(s): Department Chair approval
  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 3:3:0 F
- Prerequisite(s): (ACC 2010 and ACC 2020) or ACC 2030
  Introduces accounting and business students to the seriousness of fraud and its impact on business and society. Examines the elements of fraud, detection, prevention, and resolution.

ACC 481R Internship 2 to 8:0:10 to 40 Su, F, Sp
- Prerequisite(s): Approval of School of Business Career and Corporate Manager
  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.

ACC 4870 International Accounting 3:3:0 On Sufficient Demand
- Prerequisite(s): ACC 3020, all international business courses, Senior standing and Matriculation into Business Management degree program
  For accounting majors and other interested students. Examines accounting functions from an international perspective. Focuses on flow of information in multiple currencies, complying with reporting requirements in the U.S. and abroad. Studies setting budgets and monitoring performance and controlling the use of corporate assets through reports and audits. Successful completers should have a
thorough knowledge of organizational structure and services provided by large public accounting firms with international clients.

**ACC 4880**

**Accounting Policy**
3:3:0 On Sufficient Demand
- Prerequisite(s): ACC 3302 and Matriculation into the Bachelor’s Degree Program

A capstone course for accounting majors. Integrates economics, finance and management, financial accounting and reporting, analysis and behavior issues, operational auditing/internal control, research (FASB), and decision analysis, and information systems. Prepares students for the dynamic role that management accountants and financial managers play in business, public, and governmental accounting.

**ACC 4890**

**CMA Review**
3:3:0 On Sufficient Demand
- Prerequisite(s): ACC 3020 and ACC 3300


**ACC 490R**

**Accounting Seminar**
1 to 3:1 to 3:0 to 9 On Sufficient Demand
- Prerequisite(s): Department Chair approval

Designed to provide short courses, workshops, and special programs on accounting-related topics. Repeatable up to 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

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 up to three credits toward graduation.

**ACC 6350**

**Accounting Strategies for Achieving Profit Goals**
3:3:0
- Prerequisite(s): Acceptance in the MBA program

Demonstrates management accounting techniques to achieve profit goals and business strategies in a variety of organizations. Addresses international accounting and ethical issues.

**ACC 6410**

**Tax Research and Procedure**
3:3:0
- Prerequisite(s): Acceptance in the MBA program

Identifies substantive tax law and tax issues or problems. Addresses the necessary skills to thoroughly research and analyze a tax problem, as well as to report research analysis and conclusions accurately and understandably. Teaches 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
- 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 in the MBA program

Prepares student to be successful in an entry level position in the auditing profession and advancement within the auditing profession. Studies recent literature, legislation, current auditing standards, and proposed auditing standards. Covers several advanced topics in auditing.

**ACC 6960**

**Capstone Accounting Theory and Research**
3:3:0
- Prerequisite(s): MGMT 6900

Teaches an analytical approach to understanding the financial reporting environment, integration of accounting theory and practical research methodology in the resolution of financial reporting problems. Includes completion of an engaged learning capstone project.

**ACRT—Air Conditioning and Refrigeration Technology**

**ACRT 1110**

**Refrigeration I**
10:5:15 Not 11-12

For entry-level Refrigeration majors, students interested in exploring the Refrigeration and Air Conditioning industry, and those desiring vocational credit for the AS degree. Covers theory, physics, principles of operation, and installation procedures of refrigeration systems. Practices overhauling and servicing compressors. Provides practical experience in assembly, disassembly, service, and repair, with extensive practice in working with tubing, fittings, and metering devices. Includes lab. Safety principles and practices are emphasized.

**ACRT 1220**

**Basic Electricity and Motor Controls**
5:5:1 Not 11-12

For second semester Refrigeration majors and interested Refrigeration and Air Conditioning service personnel desiring skill upgrading. Runs concurrently with ACRT 1210. Oriented to the refrigeration industry. Covers basic AC and DC electrical theory. Explains magnetism, induction, and generation of electricity. Covers Ohm’s Law. Includes hands-on experience with motors and controls. Includes theory and practice in electrical wiring according to the National Electrical Code. Emphasizes safety principles and practices.

**ACRT 2320**

**Electric Motors—Controls and Wiring Diagrams**
5:5:0 Not 11-12

For Refrigeration and Air Conditioning Technology majors and interested community members. Studies electric motor theory, electrical schematic diagrams and controls for refrigeration, heating, and cooling systems. Covers characteristics and uses of electric motors for refrigeration, heating and cooling systems.

**ACRT 2340**

**Commercial Refrigeration Theory**
4:4:0 Not 11-12
- Prerequisite(s): ACRT 1110, ACRT 1210 or equivalent

For third semester Air Conditioning and Refrigeration Technology majors and those interested in upgrading commercial refrigeration knowledge and or skills. Covers various types of current commercial refrigeration systems and controls. Includes theory of installing, operating, servicing, and trouble shooting equipment. Emphasizes electrical and electronic controls that are used on these systems.

**ACRT 234L**

**Commercial Refrigeration Lab**
5:0:15 Not 11-12
- Prerequisite(s): ACRT 1110, ACRT 1210 or equivalent

Lab class for third semester Air Conditioning and Refrigeration Technology majors and those interested in upgrading commercial refrigeration skills. Covers various types of current commercial refrigeration systems and controls. Includes lab hands-on experience with installing, operating, servicing, and troubleshooting equipment. Emphasizes electrical and electronic controls that are used on these systems.

**ACRT 2440**

**Commercial Refrigeration Heating and Air Conditioning Theory**
4:4:0 Not 11-12
- Prerequisite(s): ACRT 2340 or equivalent

For advanced Air Conditioning and Refrigeration Technology majors. Studies processes and techniques in the commercial refrigeration, heating, ventilating, and air conditioning field. Special emphasis is placed on troubleshooting electrical and mechanical problems. Includes theory of start-up, preventative maintenance, service, repair, and installation of gas systems, heat pumps, and electric heat for residential and light commercial applications.

**ACRT 244L**

**Commercial Refrigeration Heating and Air Conditioning Lab**
5:0:15 Not 11-12
- Prerequisite(s): ACRT 234L or equivalent

Lab class for advanced Air Conditioning and Refrigeration Technology majors. Studies processes and techniques in the commercial refrigeration, heating, ventilating, and air conditioning field. Special emphasis is placed on troubleshooting electrical and mechanical problems. Lab activities cover start-up, preventative maintenance, service, repair, and installation of gas systems, heat pumps, and electric heat for residential and light commercial applications. With departmental approval, students may be eligible for cooperative work experience or an internship opportunity as another method of earning lab credit.

**ACRT 281R**

**Cooperative Work Experience**
1 to 8:0:5 to 40 Not 11-12
- Corequisite(s): ACRT 281R the first time only

For Air Conditioning and Refrigeration 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 evaluation, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance.

ACRT 285R Cooperative Correlated Class 1:1:0 

- Corequisite(s): ACRT 281R the first time only
- Required (as part of majors): AERO and Refrigeration Technology
- 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 able to better perform in their field of work or study.

AERO—Aerospace Science

AERO 1000 Leadership Laboratory 1A 0.5:0:2 F
- Corequisite(s): AERO 1000
- Required (as part of majors): AERO and Refrigeration Technology
- Studies basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility.

AERO 1010 Leadership Laboratory 1B 0.5:0:2 Sp
- Corequisite(s): AERO 1000
- Required (as part of majors): AERO and Refrigeration Technology
- 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 F
- Corequisite(s): AERO 1000
- Required (as part of majors): AERO and Refrigeration Technology
- 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 Sp
- Corequisite(s): AERO 1010
- Required (as part of majors): AERO and Refrigeration Technology

AERO 143R Air Force Physical Training 0.5:0:2 F, Sp
- Corequisite(s): AERO 1000
- Required (as part of majors): AERO and Refrigeration Technology
- 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 F
- Corequisite(s): AERO 1000
- Required (as part of majors): AERO and Refrigeration Technology
- 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 Sp
- Corequisite(s): AERO 2000
- Required (as part of majors): AERO and Refrigeration Technology
- 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 F
- Corequisite(s): AERO 2000
- Required (as part of majors): AERO and Refrigeration Technology
- 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 Sp
- Corequisite(s): AERO 2000
- Required (as part of majors): AERO and Refrigeration Technology
- Studies development of various concepts of air power employment, emphasizing factors that have prompted research and technological change.

AERO 3000 Leadership Laboratory 3A 0.5:0:2 F
- Corequisite(s): AERO 2000
- Required (as part of majors): AERO and Refrigeration Technology
- 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 Sp
- Corequisite(s): AERO 2000
- Required (as part of majors): AERO and Refrigeration Technology
- 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 F, Sp
- Corequisite(s): AERO 2000
- Required (as part of majors): AERO and Refrigeration Technology
- Teaches basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Students perform as cadet officers. Emphasizes leadership development. Repeats are allowed. See advisor for details. May be repeated for a maximum of eight credits.

AERO 3100 Management and Leadership-A 3:3:0 F
- Corequisite(s): AERO 3010
- Required (as part of majors): AERO and Refrigeration Technology
- 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 Sp
- Corequisite(s): AERO 3010
- Required (as part of majors): AERO and Refrigeration Technology
- 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 F
- Corequisite(s): AERO 2000
- Required (as part of majors): AERO and Refrigeration Technology
- 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 (UPT).

AERO 399R Academic Internship—Leadership Intern Program 4:0:8 Su
- Corequisite(s): AERO 2000
- Required (as part of majors): AERO and Refrigeration Technology
- Provides advanced fundamentals of military leadership, planning, organizing, and team building at various levels of responsibility.

AERO 400R Leadership Laboratory 4A 0.5:0:2 F
- Corequisite(s): AERO 2000
- Required (as part of majors): AERO and Refrigeration Technology
- 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 two credits.

AERO 401R Leadership Laboratory 4B 0.5:0:2 Sp
- Corequisite(s): AERO 2000
- Required (as part of majors): AERO and Refrigeration Technology
- 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 two credits.

AERO 4100 National Security Affairs-A 3:3:0 F
- Corequisite(s): AERO 2000
- Required (as part of majors): AERO and Refrigeration Technology
- Studies the military profession, civil-military interaction, and the forming of defense strategy.

AERO 4110 National Security Affairs-B 3:3:0 Sp
- Corequisite(s): AERO 2000
- Required (as part of majors): AERO and Refrigeration Technology
- Studies the military profession, civil-military interaction, and the forming of defense strategy.

AMST—American Studies

AMST 2000 Introduction to American Studies 3:3:0 HH
- Corequisite(s): ENGL 2010 or ENGL 2020
- Required (as part of majors): AMST
- 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 F, Sp
- Corequisite(s): ENGL 2010 or ENGL 2020
- Required (as part of majors): AMST
- 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 six credits toward graduation.
**ANTH—Anthropology**

**ANTH 101G**  
Social/Cultural Anthropology  
3:3:0  
Su, F, Sp  
- 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.

**ANTH 1020** (Cross-listed with BIOL 1500)  
Biological Anthropology  
3:3:0  
F, Sp  
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  
F, Sp  
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 107G**  
Multicultural Societies  
3:3:0  
F  
For students who desire to broaden their cultural awareness. 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.

**ANTH 180G** (Cross-listed with HIST 180G)  
Introduction to American Indian Studies  
3:3:0  
F  
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  
Sp  
Explores the history, goals, theories, and methods of anthropological and archaeological 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  
F  
- Prerequisite(s): ENGL 1010 and (ANTH 101G or any foreign language 2010 course). Sophomore status required.
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.

**ANTH 3130**  
Reproduction and Biomedicine  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a C+ grade or higher); ANTH 3150 recommended.
Studies anthropological concepts of culture and gender to understand the science, technology and politics of reproductive health. Explores ethnographic case studies and the symbolism of the body. Examines the contested meanings of gender, personhood and society within diverse cultural and political settings.

**ANTH 3150** (Cross-listed with HLTH 3150)  
Culture Ecology and Health  
3:3:0  
Sp  
- Prerequisite(s): ENGL 1010 and (ANTH 101G or PSY 1010 or SOC 1010)  
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)
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  
On Sufficient Demand  
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a grade of C+ or higher)
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  
On Sufficient Demand  
- Prerequisite(s): ANTH 1020 or BIOL 1500 or permission of instructor
Provides hands-on laboratory exercises and examines theoretical and methodological issues in the medico-legal determination of personal identity and manner/cause 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)
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.

**ANTH 333R**  
Special Topics in North Coast Peruvian Archaeology  
3:3:0  
- Prerequisite(s): (ANTH 1020 or BIOL 1500) and ANTH 1030, or permission of instructor  
- 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 Bichistory Project. Covers special, situational, and timely topics involving current debates, controversies and problem based subjects. Includes topics ranging from critiques of archaeological 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+)
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 3500 Discourse Semiotics and Representation**  
**3:3:0 On Sufficient Demand**  
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+ or equivalent)  
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+)

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 Memory and History**  
**3:3:0 On Sufficient Demand**  
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+)

Studies how societies remember and present 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 On Sufficient Demand**  
- Prerequisite(s): PSY 1010 and ANTH 101G and (ENGL 2010 or ENGL 2020 with a C+ grade or higher)

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 Osteology**  
**3:3:0**  
- Prerequisite(s): (ANTH 1020 or BIOL 1500) and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) or permission of instructor

Introduces the biological anthropology of the human skeleton. Includes 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. 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 On Sufficient Demand**  
- Prerequisite(s): (ANTH 101G or ANTH 1020) and (ENGL 2010 or ENGL 2020 with a minimum grade of C+)

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 (ENGL 2010 or ENGL 2020 with a minimum grade of C+)

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 (ENGL 2010 or ENGL 2020 with a C+ grade or higher)

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**  
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum C+ grade)

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  
-Sp-  
-Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a C+ grade or higher)-  
Explores social theory and other disciplines. Surveys current debate through exploration of the conceptual apparatuses that are deployed and the issues that motivate current research. Prepares the student to knowingly engage contemporary anthropological literature.

**ANTH 4200**  
**Biology of Religion**  
3:3:0  
-On Sufficient Demand-  
-Prerequisite(s): (ANTH 101G or ANTH 1020) and (ENGL 2010 or ENGL 2020 with a minimum grade of C+)-  
Examines cultural and biological aspects of human sexual nature, drawing on evidence and controversies from anthropology, psychology, medicine, biology and history.

**ANTH 4250**  
**Current Topics in Anthropology**  
1 to 3:1 to 3:0  
-On Sufficient Demand-  
-Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+)-  
Presents selected topics in Anthropology and intellectual conjunctures, as well as on the major debates that have formed the field and separated it from other social science disciplines.

**APPAR Apprentice**

**APPAR 1110**  
**Sheet Metal 1A**  
6:6:0  
-F-  
Completers will obtain American Red Cross CPR/First Aid Certification. Introduces Sheet Metal trade and its history. Teaches the safe operation of hand and power sheet metal tools and machinery. Covers basic drafting and layout techniques, and construct sheet metal seams to blueprint specification.

**APPAR 1120**  
**Sheet Metal 1B**  
6:6:0  
-Sp-  
Introduces parallel line, radial line, and triangulation layout methods. Addresses layout and fabrication of basic sheet metal duct system fitting to blueprint specifications. Introduces field installation practices, emergency procedures, and hazardous communication.

**APPAR 1210**  
**Sheet Metal 2A**  
6:6:0  
-F-  
-Prerequisite(s): APPAR 1120-  
Teaches the basics of bidding jobs and job costing, making pictorial drawings and free hand sketches. Features building intermediate duct system fittings to blueprint specifications. Introduces architectural sheet metal work and roof drainage systems.

**APPAR 1220**  
**Sheet Metal 2B**  
6:6:0  
-Sp-  
-Prerequisite(s): APPAR 1210-  
Teaches construction and installation of louvers and ventilators, selection and installation of duct hangers and anchor, selection and installation of fire and smoke dampers and introduction to computer operations.

**APPAR 1410**  
**Plumbing Independent 1A**  
5:5:0  
-F-  
For plumbing apprentices. Introduces plumbing definitions, Uniform Plumbing Code chapters 1, 2 and 3, mathematics for plumbers. Studies installation practices and IAPMO standards, related science, pipe threading, and mechanical piping systems.

**APPAR 1420**  
**Plumbing Independent 1B**  
5:5:0  
-Sp-  
-Prerequisite(s): APPAR 1410-  
For plumbing apprentices. Covers Uniform Plumbing Code as it relates to fixtures, faucets, valves, overflows, strainers, connections, floor drains, whirlpool bathtubs, cast-iron soil, drainage, glass, clay and concrete pipe. Studies basic emergency and first aid, solder and brazed joint, copper pipe, caulked joint, mathematics units 7-16 and blue print reading.

**APPAR 1430**  
**Plumbing Independent 2A**  
5:5:0  
-F-  
-Prerequisite(s): APPAR 1420-  
For plumbing apprentices. Covers Uniform Plumbing Code chapters 5 and 6, Appendix A-recommended rules for sizing water supply system, mathematics and backflow prevention.

**APPAR 1440**  
**Plumbing Independent 2B**  
5:5:0  
-Sp-  
-Prerequisite(s): APPAR 1430-  
For plumbing apprentices. Covers blue print reading for plumbers units 11-34, Uniform Plumbing Code chapters 7, 8, and 9, plumbing safety NAPHCC lessons 27A, 97-104.

**APPAR 1450**  
**Plumbing Independent 3A**  
5:5:0  
-F-  
-Prerequisite(s): APPAR 1440-  

**APPAR 1460**  
**Plumbing Independent 3B**  
5:5:0  
-Sp-  
-Prerequisite(s): APPAR 1450-  
For plumbing apprentices. Covers Uniform Plumbing Code chapters 5, 6, 8, 12, Appendix B and Appendix H. Studies gas piping and appliances, good practices for gas piping and appliances, and mathematics.

**APPAR 1470**  
**Plumbing Independent 4A**  
5:5:0  
-F-  
-Prerequisite(s): APPAR 1460-  
For plumbing apprentices. Covers plumbing math review, installation practices, Uniform Plumbing Code chapters 6, 7, 8, 10, Appendices D and H. Studies heating systems, hydraulic theory, pump systems, brazing, soldering, PVC pipe and pipe dies.

**APPAR 1480**  
**Plumbing Independent 4B**  
5:5:0  
-Sp-  
-Prerequisite(s): APPAR 1470-  
For plumbing apprentices. Covers blue print reading, PVC pipe and copper joining techniques, and review and preparation for state license exam.
# Course Descriptions

## ARCH—Archaeology

### ARCH 1100

<table>
<thead>
<tr>
<th>Introduction to Archaeology</th>
<th>SS</th>
<th>3:3:0</th>
<th>F, Sp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Studies the archeological record of human behavior for the last two million years. Examines the scientific techniques used to explore and analyze the record. Investigates the ways in which our ancestors lived and the ways in which the present and future world is affected by the past. Includes field trips, films and research methods.</td>
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## ART—Art

### ART 1010

<table>
<thead>
<tr>
<th>Introduction to Visual Arts</th>
<th>F</th>
<th>3:3:0</th>
<th>Su, F, Sp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develops an appreciation of art. Studies elements and principles of art. Includes identification of major art forms, surveys art history, art criticism, and media. Satisfies a fine arts requirement. Community members are welcome.</td>
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### ART 1020

<table>
<thead>
<tr>
<th>Basic Drawing for Non-Majors</th>
<th>FF</th>
<th>3:2:2</th>
<th>Su, F, Sp</th>
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</thead>
<tbody>
<tr>
<td>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.</td>
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</table>

### ART 1050

<table>
<thead>
<tr>
<th>Photography I</th>
<th>FF</th>
<th>3:2:4</th>
<th>Su, F, Sp</th>
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</thead>
<tbody>
<tr>
<td>Emphasizes the use of camera operation, including aperture and shutter speed adjustments to control exposure, depth of field, lenses, camera format. Teaches how to see photographically, using elements of composition and lighting to make stronger images. Teaches basic black and white film and printing processes. Requires a 35mm manual mode camera, as well as film and paper. Community members welcome.</td>
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</table>

### ART 1110

<table>
<thead>
<tr>
<th>Drawing I</th>
<th>FF</th>
<th>3:2:2</th>
<th>Su, F, Sp</th>
</tr>
</thead>
<tbody>
<tr>
<td>For majors and non-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 home work assignments.</td>
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</tbody>
</table>

### ART 1120

<table>
<thead>
<tr>
<th>2D Design</th>
<th>Su, F, Sp</th>
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</thead>
<tbody>
<tr>
<td>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 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.</td>
<td></td>
</tr>
</tbody>
</table>
line, shape, rhythm, contour, value, and contrast in creative assignments.

ART 1130 3 D Design 3:2:2 F, Sp
- 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.

ART 1280 Airbrush Basics 3:2:2 On Sufficient Demand
  Studies basic airbrush techniques, tools and materials. Develops masking and painting skills for a wide variety of textures and effects. Includes lectures, demonstrations, and labs. Students must provide airbrush (any model) and materials.

ART 1340 Sculpture I 3:2:2 F, Sp
  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.

ART 1350 Ceramics I 3:2:2 Su, F, Sp
  Studies clay as an expressive medium. Emphasizes techniques of working with clay, including hand building, wheel throwing, glazing, and firing.

ART 1360 Crafts Methods and Materials 3:2:2 On Sufficient Demand
- Prerequisite(s): ART 1120
  Emphasizes design skills used in craft media including glass, metal, wood, fibers, and composites. Covers use and safe practices for both hand and power tools. Includes historical and cultural derivation of designs and art works, through critical analysis, aesthetic import and production techniques. Community members welcome.

ART 1400 Graphic Computer Applications 3:2:2 Su, F, Sp
  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.

ART 1410 Typography and Layout I 3:2:4 F, Sp
- Prerequisite(s): ART 1120, ART 1400
  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.

ART 1420 Introduction to Graphic Design 3:2:4 Su, F, Sp
- Prerequisite(s): ART 1120
  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 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.

ART 1650 Watermedia I 3:2:2 Su, F, Sp
- Prerequisite(s): ART 1110 or ART 1020
  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.

ART 1680 Fundamentals of Fiber Design 3:2:2 On Sufficient Demand
  Introduces basic fiber design and construction. Includes techniques in weaving, carding, spinning, dyeing, batik, ikat, basketry, and felting. Students provide all materials. Community members welcome.

ART 1690 Glass Design and Construction 3:2:2 Sp
  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.

ART 1700 Processes of Jewelry and Metal Design 3:2:2 On Sufficient Demand
  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.

ART 1720 Architectural Rendering 3:3:0 FF
  Teaches two point perspective architectural rendering. Develops exterior pictorial views from floor and elevation plans. Uses various artist mediums to add atmospheric perspective and landscape features. Successful completers should also be familiar with the use of renderings in public hearings and design reviews.

ART 1790 Dark Room Techniques 3:2:4 Su, F, Sp
- 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.

ART 1810 Introduction to Interior Design 3:3:0 F, Sp
  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 F, Sp
  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 F, Sp
  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 On Sufficient Demand
- 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 F, Sp
  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 Art and Visual Communications Lectures 1:1:0 F, Sp
- Prerequisite(s): Any AVC major status
  Explores diverse areas of the visual arts through weekly lectures and demonstrations. Includes presentations by professionals in the areas of studio arts, illustration, photography, graphic design, and other related visuals arts professions. AVC majors
ART 2010
Art Theory and Criticism I
3:0
Prerequisite(s): ART 2710, ART 2720
Introduces the study of techniques and media used in the production of illustration art. Develops skills in the application and combination of a variety of painting processes and techniques. Focuses on acrylic and gouache painting techniques. In addition, develops mixed media processes and techniques using gouache and acrylic in combination with other materials.

ART 2250
Drawing for Animation
3:2:4
On Sufficient Demand
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.

ART 2260
Digital Painting for Illustration I
3:2:4
Prerequisite(s): ART 2210, ART 2230
Introduces the digital illustrator/painter to the application of various animation software programs such as basic raster, vector, and 3D.

ART 2270
Anatomy and Figure Structure
3:2:4
Prerequisite(s): ART 1110, ART 1120
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).

ART 2340
Digital Prepress
3:2:2
Prerequisite(s): ART 3340 or Department Approval
Introduces the character and techniques of oil reproductive processes, digital file preflighting and pasteup, trapping, imposition, proofing, color publishing industry. Teaches digital layout and compositing, image montages.

ART 2630
Color Theory
3:2:2
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 2650
Sculpture II
3:2:2
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.

ART 2690
Portfolio
1:1:2
Prerequisite(s): ART 2730, ART 2740
Introduces the study of techniques and media used in the production of illustration art. Develops skills in the application and combination of a variety of painting processes and techniques. Focuses on acrylic and gouache painting techniques. In addition, develops mixed media processes and techniques using gouache and acrylic in combination with other materials.

ART 2720
Illustrative Media and Techniques II
3:2:4
Prerequisite(s): ART 2250
Introduces the study of techniques and media used in the production of illustration art. Develops skills in the application and combination of a variety of painting processes and techniques. Focuses on acrylic and gouache painting techniques. In addition, develops mixed media processes and techniques using gouache and acrylic in combination with other materials.

ART 2760
Typography and Layout II
3:2:4
Prerequisite(s): ART 1120, ART 1420
Develops intermediate skills in the use of typography and layout to communicate the printed word. Teaches principles of type usage, page layout, and communication. Teaches technical skills such as formatting, style sheets, pagination, importing images, interaction of type with visuals, etc.

ART 2790
Graphic Design I
3:2:4
Prerequisite(s): ART 1120, 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.

ART 2800
Interactive Design I
3:2:4
Prerequisite(s): ART 1120, ART 1400, ART 2410
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.

ART 2850
Sculpture I
3:2:2
Prerequisite(s): ART 1120, ART 2400
Introduces the character and techniques of oil reproductive processes, digital file preflighting and pasteup, trapping, imposition, proofing, color reproductive processes, digital file preflighting and terminology. Includes the practical application of learned skills through design projects.

ART 2890
Portfolio
1:1:2
Prerequisite(s): ART 2730, ART 2740
Introduces the study of techniques and media used in the production of illustration art. Develops skills in the application and combination of a variety of painting processes and techniques. Focuses on acrylic and gouache painting techniques. In addition, develops mixed media processes and techniques using gouache and acrylic in combination with other materials.
Course Descriptions

ART 2640
Painting II 3:2:2 F, Sp
- Prerequisite(s): ART 2630
Presents advanced traditional and non-traditional oil painting techniques. Emphasizes the techniques for personal expression. Encourages development of individual style and approach to the media.

ART 2650
Watermedia II 3:2:2 F, Sp
- Prerequisite(s): ART 1650
- Corequisite(s): ART 1110 recommended
Emphasizes development of technical skills, composition at an intermediate level in a variety of watermedias. Includes lecture, demonstration, and studio time for application and evaluation. Encourages development of personal style in relation to the media.

ART 2680
Printmaking I 3:2:4 Su, F, Sp
- 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.

ART 2690
Printmaking II 3:2:4 Su, F, Sp
- Prerequisite(s): ART 1110 or ART 1020; ART 2680
Continues the exploration of fine art printmaking through intermediate techniques, processes and materials. Views the role of traditional and contemporary printmaking as a fine art medium. Includes more challenging and complex projects with more advanced technical skills than in 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.

ART 2700
Photography II 3:2:4 F, Sp
- Prerequisite(s): ART 1050, ART 1120
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. Covers historical and critical issues through readings, critiques and class discussions. Requires a 35mm manual mode camera, as well as film and paper.

ART 2710
Documentary Photography 3:2:4 F
- Prerequisite(s): ART 2700
Teaches the art of telling stories through the camera. Studies how to take a story from concept to publication. Students will also learn methods of publication of their imagery in magazines, newspapers, web sites, annual reports, etc.

ART 2720
Color Photography 3:2:4 F
- Prerequisite(s): ART 2450
Introduces color photography and color theory using slide film, color negative film and process of inkjet printing through a digital medium. 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.

ART 2730
Photographic Lighting 3:2:4 Sp
- Prerequisite(s): ART 2450
Teaches the basic skills needed to control and manipulate light as a tool for the photographer in communication of artistic vision. Explores different lighting sources and investigates the effects of direction, quality and quantity. Emphasizes flash photography, tungsten, and natural lighting. Studies photographic studio, location, and mixed lighting techniques. Covers processes and concepts through slide presentations, readings, critiques and class discussions.

ART 281R
Art and Visual Communications Internship 1 to 6:0:3 F, Sp
- 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.

ART 291R
Independent Study 1 to 3:0 to 3:0 F, Sp
- 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 AVG 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.

ART 300R
Special Topics in Art 1 to 3:0 to 3:0 to 9 F, Sp
- Prerequisite(s): Departmental 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 6 credits toward graduation.

ART 301R
Art Theory and Criticism II 3:3:0 On Sufficient Demand
Prerequisite(s): ART 2110
Explores the role of traditional and contemporary printmaking as a fine art 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 personal work. May be repeated for a maximum of 6 credits toward graduation.

ART 3210
Illustration I 3:2:4 F, Sp
- Prerequisite(s): ART 2240
- Pre- or Corequisite(s): ART 361R
Provides experiences in creating mood through visual elements and controlling the pictorial space. Emphasizes composition, creativity and technical ability. Addresses narrative illustration and visual storytelling.

ART 3220
Illustration II 3:2:4 On Sufficient Demand
- Prerequisite(s): ART 3210
Introduces conceptual illustration and problem solving through the use of visual symbols, metaphors and icons.

ART 3230
3-D Computer Modeling 3:2:2 F, Sp
- Prerequisite(s): ART 2450
Teaches techniques in the use of 3D computer modeling software. Studies model construction, texture mapping, scene construction, animating, and rendering of 3D computer models.

ART 324R
Children's Book Illustration 3:2:4 On Sufficient Demand
- Prerequisite(s): ART 2240, ART 361R
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  
Su, F, Sp  
- Prerequisite(s): ART 2260 or DGM 2620  
- Pre- or Corequisite(s): ART 3260  
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.

**ART 3260**  
Digital Painting for Illustration II  
3:2:4  
Su, F, Sp  
- Prerequisite(s): ART 2260  
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.

**ART 327R**  
Rendering the Human Head  
3:2:4  
On Sufficient Demand  
- Prerequisite(s): ART 1110, ART 1120, ART 1050  
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.

**ART 328R**  
Painting the Human Head  
3:2:4  
Su, F, Sp  
- Prerequisite(s): ART 327R  
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.

**ART 334R**  
Sculpture III  
3:2:0 to 4.0  
F, Sp  
- Prerequisite(s): ART 2340  
Designed to investigate studio problems based on concepts applied to various three-dimensional materials. Places special emphasis on the development of individual expression in the students chosen medium. Encourages the development of individual style and exploration of alternative media. May be repeated for a maximum 6 credits toward graduation.

**ART 335R**  
Ceramics III  
3:2:2 to 4  
F, Sp  
- Prerequisite(s): ART 2350  
Continuation of concepts developed in Ceramics I and II. Addresses advanced skills in hand building, wheel throwing, glaze formulation and kiln firing. May be repeated for a maximum of 6 credits toward graduation.

**ART 3400**  
Fundamentals of Art Education  
3:2:2  
F, Sp  
For elementary and childhood education majors and other interested students. Introduces concepts and techniques necessary to teach broadly based art education to children. 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. Community members welcome.

**ART 3410**  
Advanced Typography Layout  
3:2:4  
On Sufficient Demand  
- Prerequisite(s): ART 1410, ART 2410, ART 2430, ART 2450  
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.

**ART 3430**  
Graphic Design II  
3:2:4  
Su, F, Sp  
- Prerequisite(s): ART 2410, ART 2430, ART 2450  
Teaches concept and theory behind brand identity and package design. Covers how to conduct research to ensure their designs are appropriate and powerful. Includes creation of designs that use three-dimensional space.

**ART 346R**  
Interactive Design II  
3:2:4  
F, Sp  
- Prerequisite(s): ART 2450  
Teaches basic principles and techniques of frame-by-frame animation and motion design. Includes discussion of narrative and narrative structure to solve client needs. Includes learning Adobe After Effects to render video and audio for broadcast media. May be repeated for up to 6 credits toward graduation.

**ART 3470**  
Digital Painting  
3:2:4  
On Sufficient Demand  
- Prerequisite(s): ART 1110, ART 2450  
Develops advanced skills in producing pixel-based, computer-generated artwork for use as illustrations and other graphic communications. Emphasizes digitally painted images created from scratch rather than the creation of images produced through the digital manipulation of existing, found, or photographic resources. Develops conceptually based and communicative images will be a vital aspect of each course project. Employs industry-standard software, and techniques including layers, compositing, channels, selection masks and color adjustments.

**ART 3500**  
Secondary Art Education Methods I  
3:2:2  
Su, F, Sp  
- Prerequisite(s): ART 1110, ART 1120, Class is open to education majors only. 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 certification for grades 7-12.

**ART 3510**  
Secondary Art Education Methods II  
3:2:2  
Su, F, Sp  
- Prerequisite(s): ART 3500 with a grade of C or better. 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.

**ART 361R**  
Figure Drawing  
3:2:4  
F, Sp  
- Prerequisite(s): ART 2110 or ART 2270  
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.

**ART 363R**  
Painting III  
3:2:4  
F, Sp  
- Prerequisite(s): ART 2620, ART 2640  
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.

**ART 364R**  
Figure Painting  
3:2:4  
F, Sp  
- Prerequisite(s): ART 361R, ART 2640  
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.

**ART 365R**  
Watermedia II  
3:2:2 to 4  
F, Sp  
- Prerequisite(s): ART 2650  
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 Descriptions

ART 368R Ceramic Technologies 3:2:2 Su, F, Sp
- Prerequisite(s): ART 1350, ART 2350
- Teaches proper practices in the ceramic studio. Includes kiln operation, maintenance and design, basic clay and glaze formulation, understanding ceramic materials, ceramic tool making, and studio practices and safety.

- Prerequisite(s): ART 2700
- Pre- or Corequisite(s): ARTH 3320
- Course teaches alternative photographic processes with an emphasis on early photographic printing techniques. Students will prepare, sensitize, and expose their own paper using various alternative techniques through a variety of hands-on projects.

ART 3730 Studio and Product Photography 3:2:4 Su, F, Sp
- Prerequisite(s): ART 2730
- 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.

ART 3740 Fine Art Photography 3:2:4 Su, F, Sp
- Prerequisite(s): ART 2730
- 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.

ART 3750 Digital Imaging II 3:2:4 On Sufficient Demand
- Prerequisite(s): ART 2450, ART 2730
- 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.

ART 3800 Low-Fire Ceramics 3:2:2 Su, F, Sp
- Prerequisite(s): ART 1350, ART 2350
- 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 Hand Building Ceramics 3:2:2 On Sufficient Demand
- Prerequisite(s): ART 2350
- 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.

ART 411R Drawing IV 3:2:4 Su, F, Sp
- Prerequisite(s): ART 311R
- Emphasizes individual exploration in a variety of media with a focus on “process” in a series of finished drawings. Continues with conceptual development of drawing as a creative medium. Encourages active participation in the critical process and refinement of a personal approach to the medium. May be repeated for a maximum of 6 credits toward graduation.

ART 421R Advanced Illustration 3:2:4 F, Sp
- Prerequisite(s): ART 3220
- Provides advanced studies in producing a senior level portfolio. Encourages students to find a personal style and voice in communicating images. Requires advanced problem solving skills and advanced abilities in the creation of images. May be repeated for a maximum of 6 credits toward graduation.

ART 4230 Advanced 3D Computer Modeling 3:2:2 On Sufficient Demand
- Prerequisite(s): ART 3230
- Teaches advanced techniques in creating and manipulating 3D computer models. Focuses on character modeling and design.

ART 426R Concept Design I 3:2:4 Su, F, Sp
- Prerequisite(s): ART 2210, ART 3290, ART 361R
- Teaches how to create original and compelling concept designs and environments for use in film, video games, graphic novels, and children's books. May be repeated for a maximum of 6 credits toward graduation.

ART 427R Concept Design II 3:2:4 Su, F, Sp
- Prerequisite(s): ART 426R
- Offers 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 436R Mold Making and Casting 3:2:2 On Sufficient Demand
- Prerequisite(s): ART 1120, ART 1130, ART 2340
- Covers the basic process of casting and the construction of molds. Emphasizes the use of molds in the development of sculptural ideas.

ART 4370 Hand Building Ceramics 3:2:2 On Sufficient Demand
- Prerequisite(s): ART 2350
- 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.

ART 443R Special Topics in Graphic Design 3:2:4 Su
- Prerequisite(s): ART 2430, ART 2450, ART 2460
- Addresses emerging topics, issues and technology relevant to graphic design. Addresses these issues through lecture and hands-on project development. May be repeated for maximum of 6 credits toward graduation. For BFA majors with an emphasis in Graphic Design only.

ART 446R Advanced Interactive Design 3:2:4 F
- Prerequisite(s): ART 2430, ART 2450, ART 2460
- This class is for BFA majors only. Teaches advanced principles and techniques to develop interactive experiences. Includes discussion of usability and user-centered design to solve client needs. Includes learning Adobe Flash and ActionScript to program innovative experiences for the Web and beyond. May be repeated for up to 6 credits toward graduation.

ART 449R Advanced Graphic Design Studio 3:2:4 F, Sp
- Prerequisite(s): ART 2460, ART 3410
- Presents advanced instruction in the execution of a variety of graphic design projects (advertising, collateral, editorial, package and web design). Assists students to improve and refine their portfolios in preparation for employment. Provides students skills to develop a brand identity for themselves to further enhance their employability. May be repeated for a maximum of 6 credits toward graduation. For BFA majors with a Graphic Design emphasis only.

ART 463R Painting IV 3:2:4 Su, F, Sp
- Prerequisite(s): ART 363R
- Emphasizes independent and creative development as a painter. Provides an opportunity for students to solidify and expand their ideas while working within a class context. May be repeated for a maximum of 6 credits toward graduation.

ART 465R Watermedia IV 3:2:4 Su, F, Sp
- Prerequisite(s): ART 365R
- Emphasizes continued experimental approach to various types of water media including watercolor, acrylic, ink, and mixed media. Provides opportunity for independent exploration and further development of personal style/voice coupled with refinement of technical skills. May be repeated for a maximum of 6 credits.
ART 468R
Printmaking IV
3:2:4  Su, F, Sp
- Prerequisite(s): ART 1110 (or ART 1020), ART 2620, ART 368R
Expands the exploration of fine art printmaking through advanced techniques, processes and materials. Continues to view the role of traditional and contemporary printmaking as a fine art medium. Includes more challenging and complex projects with more advanced technical skills than in Printmaking I, II & III. Encourages the ability to detect and diagnose printing errors and to collaborate with peers in the making and critiquing of artworks. 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.

ART 470R
Interpretive Drawing
3:2:4  On Sufficient Demand
- Prerequisite(s): ART 361R
Offers a senior-level drawing experience, emphasizing drawing from imagination. Continues skill development in proper character structure and scene layout. May be repeated for a maximum of 6 credits toward graduation.

ART 471R
Photographic Illustration
3:2:4  Sp
- Prerequisite(s): ART 3750, ART 3200
Develops skills in illustrating concepts through photographic processes. Encourages students to work through assignments from their own personal emphasis of commercial or fine art image making styles. Explores contemporary trends, styles, and critical issues through slide presentations, readings, critiques and class discussions. Focuses on the development of interpretation and conceptual image making. May be repeated for a maximum of 6 credits toward graduation.

ART 474R
Advanced Photo Studies
3:2:4  On Sufficient Demand
- Prerequisite(s): ART 2730, ART 3750, ART 3200
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. Investigates needed skills in running a business as a commercial and Fine Art photographer. Emphasizes conceptual image making. May be repeated for a maximum of 6 credits toward graduation.

ART 4750
Exploratory and Alternative Photography
3:2:4  Su, F, Sp
- Prerequisite(s): ART 3740, ART 371R
Explores deconstruction of the image in both a formal and conceptual process. Analyzes liquid emulsions, mixed media, encuastic, and alternative surfaces and materials. Examines the possibilities of the image beyond two-dimensional traditional photography.

ART 481R
Art and Visual Communications Internship
To 6:0:3 to 3  On Sufficient Demand
- Prerequisite(s): Junior status or above and departmental approval
Combines classroom theory with related, practical job experience. Students works 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. A maximum of 6 credits may apply toward graduation.

ART 4890
Senior Seminar
3:3:0  F, Sp
- Prerequisite(s): Senior Status in AVG Major
For AVG 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  F, Sp
- Prerequisite(s): Department Approval
Provides an opportunity for upper division students to do individual research and experimentation within the areas of the AVG 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. A maximum of three credits may apply to graduation.

ART 4990
Senior Studio
3:2:2  F, Sp
- Prerequisite(s): Senior Status in AVG Major
For AVG majors. Combines and integrates concepts, methodologies and skills developed in previous AVG 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  F, Sp
- Prerequisite(s): Departmental Approval
For AVG majors with senior status and a BFA emphasis. Focuses on the development and execution of a gallery exhibition. Includes collaborative work with a gallery/museum professional in preparation of the exhibition’s public viewing. Must be taken twice (6 credit hours total) for graduation.
**Course Descriptions**

**ARTH 3020**  
Classical Art and Architecture History  
*3:3:0*  
Sp  
• Prerequisite(s): (ARTH 2710 or ARTH 2720) or  
(HUM 2010 and HUM 2020)  
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*  
On Sufficient Demand  
• Prerequisite(s): ARTH 2710 and ARTH 2720  
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*  
F  
• Prerequisite(s): (ARTH 2710 or ARTH 2720) or  
(HUM 2010 and HUM 2020)  
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.

**ARTH 3050**  
Baroque Art and Architecture History  
*3:3:0*  
On Sufficient Demand  
• Prerequisite(s): ARTH 2710 or ARTH 2720 or  
(HUM 2010 and HUM 2020)  
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*  
Sp  
• Prerequisite(s): ARTH 2710 or ARTH 2720 or  
(HUM 2010 and HUM 2020)  
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**  
Twentieth Century Art and Architectural History  
*3:3:0*  
F, Sp  
• Prerequisite(s): (ARTH 2710 or ARTH 2720) or  
(HUM 2010 and HUM 2020)  
Studies leading artists, artworks, and movements. Explores the broad cultural, historical, and philosophical influences on modern and contemporary art and architecture. Includes lectures and class discussions on the modern and contemporary art and architecture.

**ARTH 3080**  
History of Architecture  
*3:3:0*  
On Sufficient Demand  
• Prerequisite(s): ARTH 2710, ARTH 2720  
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*  
On Sufficient Demand  
• Prerequisite(s): ARTH 2710, ARTH 2720  
Introduces students to the art and architecture of China, Japan, Africa, Oceanica, and the Americas. 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 3200**  
The History of Photography  
*3:3:0*  
F, Sp, Su  
• Prerequisite(s): ARTH 2710 or ARTH 2720  
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 391R**  
Art History Seminar  
*3:3:0*  
Su, F, Sp  
• Prerequisite(s): ARTH 2800  
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.

**ARTH 390G**  
Arts of the World  
*3:3:0*  
F  
• Prerequisite(s): ARTH 2710, ARTH 2720  
Surveys art and architecture of Africa, China, Japan, Korea, and the Americas. Focuses on cultural influences and the role of technology in the development of art and architecture. Includes lecture and discussion about classical art within its broad cultural framework.

**ARTH 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. Introduces American Sign Language (ASL) and teaches some basic conventional skills. Gives special attention to the differences between the ways hearing and Deaf people construct meanings associated with deaf people. Taught in (or interpreted into) English.

**ASL 1000**  
Beginning American Sign Language I  
*4:4:1*  
Su, F, Sp  
• 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.

**ASL 2010**  
Intermediate American Sign Language I  
*4:4:1*  
Su, F, Sp  
• 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. Includes a weekly lab.

**ASL 202G**  
Intermediate American Sign Language II  
*4:4:0*  
F, Sp  
• Prerequisite(s): Students should have equivalent knowledge of ASL 1020  
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.

**ASL 2030**  
Advanced Fingerspelling  
*1:1:0*  
F, Sp  
• 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*  
F, Sp  
• Prerequisite(s): ASL 1020  
Focuses on the complex rule systems of ASL numbers, one of the hardest to learn elements of ASL. Designed to increase students’ ability to accurately produce and comprehend ASL numbers. Taught in ASL.

**ASL 1010**  
Beginning American Sign Language II  
*4:4:1*  
LH  
• Prerequisite(s): Students should have equivalent knowledge of ASL 1010  
Employs an immersion approach to language learning. Emphasizes basic expressive and receptive conversational skills. Includes introduction to American Deaf culture. Requires weekly lab.
Course Descriptions

ASL 2050 Advanced ASL Grammar
3:3:0 On Sufficient Demand
- Prerequisite(s): ASL 202G or Instructor Approval
Explores the grammar of ASL 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 3000 Technology for Deaf Studies
3:3:1 On Sufficient Demand
- 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 emerging 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 3050 Advanced American Sign Language
3:3:0 F, Sp, Su
- Prerequisite(s): ASL 202G or instructor approval
Designed for non-native ASL users who have attained a fairly good mastery of basic ASL. Focuses on grammatical aspects of ASL, including sign formation, sentence forms, pronominalization, identifying subjects and objects, classifiers, pluralization, time concepts, locatives, and inflectional morphology. Includes considerable study of the culture of Deaf people.

ASL 3310 Interpreting I
3:3:0 F, Sp
- Prerequisite(s): Any 3000 level ASL course
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.

ASL 3320 Physiology of Interpreting
3:3:0 On Sufficient Demand
- Prerequisite(s): ASL 202G
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.

ASL 3330 Cross-Cultural Communication and Interpreting
3:3:0 On Sufficient Demand
- Prerequisite(s): ASL 3310 and Instructor Approval
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.

ASL 3340 Interpreting II--Advanced Techniques
3:3:0 On Sufficient Demand
- Prerequisite(s): ASL 3310
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.

ASL 3350 Consecutive Interpreting
3:3:1 On Sufficient Demand
- Prerequisite(s): ASL 3310 or Instructor Approval
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.

ASL 3360 Simultaneous Interpreting
3:3:0 On Sufficient Demand
- Prerequisite(s): ASL 3350 or Instructor Approval
Focuses on 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. Provides more consideration to developing sets of technical or field-specific signs and applying these to interpretative work. Includes one-hour per week lab.

ASL 3370 Sign to Voice Interpreting
3:3:1 On Sufficient Demand
- Prerequisite(s): ASL 3350 or Instructor Approval
Focuses on developing sets of technical or field-specific signs and applying these to interpretative work. Includes one-hour per week lab. Taught in ASL.

ASL 3380 Transliteration
3:3:0 On Sufficient Demand
- Prerequisite(s): ASL 3310
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 interpretative work. Includes one-hour per week lab.

ASL 3390 Professional Issues in Interpreting
3:3:0 On Sufficient Demand
- Prerequisite(s): ASL 3310
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.

ASL 3510 Deaf Culture to 1817
3:3:0 F, Sp
- Prerequisite(s): ASL 202G or equivalent
Explores chronologically to 1817 the formation 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 F, Sp
- Prerequisite(s): ASL 202G or equivalent
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 F, Sp
- Prerequisite(s): ASL 202G or equivalent
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.

ASL 3610 ASL Literature
3:3:0 F, Sp
- Prerequisite(s): ASL 202G or equivalent
Explores chronologically representative ASL authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts,
### Course Descriptions

and deepen understanding of ASL. Presentations and class instruction conducted entirely in ASL.

#### ASL 3710
**Deaf View Image Art DeVIA**
3:3:0  
- **Prerequisite(s):** ASL 3050
- Explores the role of visual arts in the Deaf-World with particular attention to Deaf View Image Art (DeVIA) whose subject-matter and style represent a Deaf worldview. Examines the historical contributions of early Deaf artists in the development of DeVIA. Studies various artworks as well as Deaf artists' descriptions of their work, including their aims, motivations, and challenges. Taught in ASL.

#### 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
- 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 4330
**Visual Linguistic Analysis for Interpreters**
3:3:1  
- **Prerequisite(s):** ASL 3100
- 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.

#### ASL 4360
**Legal Interpreting**
3:3:0  
- **Prerequisite(s):** ASL 3100
- 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.

#### ASL 4370
**Ethics for Interpreters**
3:3:0  
- **Prerequisite(s):** ASL 3100
- 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, or social contexts). Helps students in the Advanced Certification Interpreter Preparation Program (ACIPP) to become bimodal professional interpreters. Provides extensive individual feedback to rapidly improve students' interpreting skills and understanding of the complex nature of interpreting ethics.

#### ASL 4380
**Special Topics in Interpreting**
3:3:1  
- **Prerequisite(s):** ASL 3100
- 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, or social contexts). Helps students in the Advanced Certification Interpreter Preparation Program (ACIPP) to become bimodal professional interpreters. Provides extensive individual feedback to rapidly improve students' interpreting skills and understanding of the complex nature of interpreting ethics.

#### ASL 4410
**ASL Linguistics**
3:3:0  
- **Prerequisite(s):** ASL 3050
- Introduces basics of linguistic properties of American Sign Language (ASL). Includes phonology, morphology, syntax, and language in use. Encourages students to think critically about the structure of ASL and the claims researchers make about that structure. Taught entirely in ASL.

#### ASL 4450
**Deaf-World Discourse**
3:3:0  
- **Prerequisite(s):** ASL 3050
- 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 4480
**Advanced Understanding of Oppression and Audism**
3:3:0  
- **Prerequisite(s):** ASL 385G
- 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 450R
**Independent Study in Deaf Studies**
1 to 3:1 to 3:0  
- **Prerequisite(s):** ASL 3050
- 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 nine credits with different topics.

#### ASL 4550
**Independent Study**
1 to 3:1 to 3:0  
- **Prerequisite(s):** For Deaf Studies students only. Must have approval of both the instructor and the Program Coordinator/Department Chair. Provides independent study as directed in reading and individual projects specifically related to the Deaf Studies field at the discretion and approval of the Dean and/or Department Chair. May be repeated for a maximum of six credits toward graduation.

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### ASTR—Astronomy

#### ASTR 1040**
**Elementary Astronomy**
3:3:0  
- **Prerequisite(s):** MATH 1050
- Introduces astronomy and cosmology. Explores interesting concepts such as the big bang and black holes. Includes observational exercises including the use of binoculars and telescopes.

#### ASTR 104H
**Elementary Astronomy**
3:3:0  
- **Prerequisite(s):** MATH 1050
- Introduces astronomy and cosmology. Explores interesting concepts such as the big bang and black holes. Includes observational exercises including the use of binoculars and telescopes.
### Course Descriptions

#### 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 3505
**Astrophysics I**

3:0  F  2:2:0  Sp

- **Prerequisite(s):** PHYS 2220, MATH 1220

Covers the physics of stars, stellar structure and evolution, and the solar system. Treats in detail the current methods of astronomical data collection and analysis. Discusses the mathematics of the laws of stellar structure and their implications for the birth, life, and death of stars.

#### ASTR 3506
**Astrophysics II**

3:0  F  2:2:0  Sp

- **Prerequisite(s):** PHYS 2220, MATH 1220, ASTR 3505

Covers the physics of galaxies and cosmology. Treats in detail the current methods of astronomical data collection and analysis as it relates to these topics. Discusses the mathematics of the Theories of Relativity and its implications for the origin and structure of the Universe.

### AUT—Automotive Technology

#### AUT 1000
**Survey of Automotive Technology**

2:2:0  F  1:0:3  Sp

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 1110
**Brake Systems**

2:2:0  F  1:0:3  Sp

- **Pre-or Corequisite(s):** AUT 111L Recommended

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.

#### AUT 111L
**Brake Systems Lab**

1:0:3  F  1:0:3  Sp

- **Pre-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.

#### AUT 1120
**Manual Power Trains**

2:2:0  F  1:0:3  Sp

- **Corequisite(s):** AUT 112L Recommended

For automotive majors and other interested community members. Designed to develop skills and knowledge in the area of manual transmission/transaxles and drive line 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.

#### AUT 112L
**Manual Power Trains Lab**

1:0:3  F  1:0:3  Sp

- **Pre-or Corequisite(s):** AUT 1220

Provides hands on diagnosis and repair of manual transmissions including transaxles, differentials, drive shafts, and four wheel drive components. Operation of clutches with torque and gear application.

#### AUT 1130
**Engine Repair**

2:1:3  F  1:0:3  Sp

- **Corequisite(s):** AUT 113L Recommended

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.

#### AUT 113B
**Engine Repair**

2:1:3  F  1:0:3  Sp

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  F  1:0:3  Sp

- **Pre-or Corequisite(s):** AUT 1130

Provides a laboratory experience enhanced by following the Engine Repair ASE task list. Lab work will include exercises are correlated with the Automotive Service Excellence (ASE) P1 task list. Lab activities on lab circuitry and live vehicles.

#### AUT 1210
**Suspension and Steering Systems**

2:2:0  F  1:0:3  Sp

- **Pre-or 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.

#### AUT 121L
**Suspension and Steering Systems Lab**

1:0:3  F  1:0:3  Sp

- **Pre-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 manufacturers to supplement training.

#### AUT 1220
**Automatic Transmissions and Transaxles**

2:2:0  F  1:0:3  Sp

- **Corequisite(s):** AUT 122L Recommended

AUT 122L Automatic Transmissions and Transaxles Lab 1:0:3 F, Sp
• Pre-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 manufacturers to supplement training.

AUT 1230 Engine Performance 2:2:0 F, Sp
• Corequisite(s): AUT 123L Recommended
Studies electrical and fuel systems fundamentals found on passenger cars, light-trucks, and marine applications of theory, operation, and construction. Includes solid state electronic ignition systems. Teaches tune-up including diagnosis and troubleshooting. Computerized fuel injection found on gasoline and diesel engines will also be studied.

AUT 123A Engine Performance 2:1:3 F
For automotive majors and other interested community members. Studies electrical and fuel system fundamentals including theory, construction and principles of operation. Covers batteries, lighting, starting, and charging. Includes all solid state electronic and ignition systems. Teaches tune-up including diagnosis and troubleshooting. Studies computerized ignition and fuel injection. Includes lab experience.

AUT 123B Engine Performance--2nd Half 2:1:3 Sp
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 F, Sp
• Pre-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 manufacturers to supplement training.

AUT 1260 Tech Math for Mechanics 3:3:0 F, Sp
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 1700 Brakes and Wheels 3:3:1 On Sufficient Demand
For automotive apprentices. 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 runout and wheel balancing techniques. Covers acetylene and mig welding with emphasis on welding safety.

AUT 1710 Suspensions and Steering and Air Conditioning 3:3:1 On Sufficient Demand
For automotive apprentices. Studies steering and suspension components. Teaches steering, gear, rack and pinion and conventional and MacPherson strut design. Includes steering geometry, and factor of tire wear. Discusses different methods of front end alignment. Studies troubleshooting and repair of heating and air conditioning system, includes A/C evacuation and seal replacement. Discusses electrical and service tools.

AUT 1720 Engine Repair 3:3:1 On Sufficient Demand
For automotive apprentices. Studies construction, operation and performances of various types of engines, and teaches ethics of customer relations. 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.

AUT 1730 Engine Performance 3:3:1 On Sufficient Demand
For automotive apprentices. Studies electrical and fuel systems fundamentals including theory, construction, and principles of operation. Covers batteries, lighting, starting, and charging. Includes all solid state electronic and ignition systems. Teaches tune-up including diagnosis and troubleshooting. Studies computerized ignition and fuel injection.

AUT 1740 Automotive Computer Literacy 3:3:1 On Sufficient Demand
For automotive apprentices. Performs basic operations on PC compatible computers including keyboarding and key functions using typical shop management software. Emphasizes components found on computerized automobile systems. Identifies various common automotive computer components by type and function. Includes hands-on computer use in diagnostics and troubleshooting.

AUT 1750 Manual Drive Trains and Safety 3:3:1 On Sufficient Demand
For automotive apprentices. Studies diagnosis and repair of manual transmissions including transaxles, differentials, drive shafts, axle shafts, and four wheel drive components. Teaches clutch theory with torque and gear application. Covers general and trade safety common to the automotive trades. Stresses accident prevention for personal safety along with equipment safety.

AUT 1770 Automatic Transmission and Transaxles 3:3:1 On Sufficient Demand

AUT 201L Automotive Service Practicum Engine Performance and Steering Suspension 2:0:6 F
• Prerequisite(s): AUT 1210, AUT 1230 with a grade of C- or better
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 Steering/Suspension and Engine Performance.

AUT 202L Automotive Service Practicum Emission Controls and Chassis Electronics 2:0:6 F
• Prerequisite(s): AUT 1160, AUT 1230 with a grade of C- or better
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 Emission Control Systems and Chassis Electrical.

AUT 203L Automotive Service Practicum Brake Systems and Transmission Controls 2:0:6 Sp
• Prerequisite(s): AUT 1110, AUT 1160, AUT 1220 with a grade of C- or better
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.

AUT 204L Automotive Service Practicum Fuel Management Systems and HVAC 2:0:6 Sp
• Prerequisite(s): AUT 1160, AUT 1230 with a grade of C- or better
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

AUT 2110 Advanced Steering Suspension and Alignment  
2:2:0 F  
• Prerequisite(s): AUT 1210, AUT 1160 with a grade of C- or better  
• Corequisite(s): AUT 20L 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.

AUT 2120 Advanced Engine Performance  
2:2:0 F  
• Prerequisite(s): AUT 1130, AUT 1230, AUT 1160 with a grade of C- or better  
• Corequisite(s): AUT 20L Recommended  
Studies computerized transmission controls for shifting and torque converter operation. Stresses service, diagnosis and troubleshooting using electronic test equipment.

AUT 2130 Advanced Emission Control Systems  
2:2:0 F  
• Prerequisite(s): AUT 1130, AUT 1230, AUT 1160 with a grade of C- or better  
• Corequisite(s): AUT 20L Recommended  
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.

AUT 2140 Chassis Electrical and Electronics Systems  
2:2:0 F  
• Prerequisite(s): AUT 1160, AUT 1170 with a grade of C- or better  
• Corequisite(s): AUT 20L Recommended  
Studies 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 Sp  
• Prerequisite(s): AUT 1110, AUT 1160 with a grade of C- or better  
• Corequisite(s): AUT 20L Recommended  
Studies hardware theory of laser alignment and electrical accessories. Provides laboratory experience in writing and completing individually generated work orders. Provides paid, on-the-job work experience in the student’s major. Work experience, the correlates 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 individually generated work orders that improve present work performance. May be repeated as desired for interest.

AUT 2220 Automatic Transmissions and Electronic Controls  
2:2:0 Sp  
• Prerequisite(s): AUT 1220, AUT 1160 with a grade of C- or better  
• Corequisite(s): AUT 20L Recommended  
Studies advanced theory of laser alignment and electrical accessories. Provides experience in writing and completing individually generated work orders that improve present work performance. May be repeated as desired for interest.

AUT 2230 Advanced Auto Engine Performance  
3:3:1 On Sufficient Demand  
• Prerequisite(s): AUT 1700 through AUT 1770  
For automotive apprentices. Includes advanced instruction in engine performance, starting systems, charging systems, and indicator circuits. Covers all mechanical and electronic parts of the vehicle relative to quality engine tune-up, and diagnostic instruction.

AUT 2240 Advanced Auto Electrical and Emission Controls  
3:3:1 On Sufficient Demand  
• Prerequisite(s): AUT 1700 through AUT 1770  
For automotive apprentices. Studies emissions control devices on American and foreign vehicles. Reviews state emissions certification requirements. Covers auto accessories such as wipers, cruise control systems, air bags, and ABS brake systems.

AUT 2250 Advanced Auto Engine Performance  
3:3:1 On Sufficient Demand  
• Prerequisite(s): AUT 1700 through AUT 1770  
For automotive apprentices. Includes advanced instruction on automatic transmissions including GM, Ford, Chrysler, and foreign makes. Studies computerized transmission controls of shifting and torque converter lock-ups. Covers electrical and mechanical operation of anti-lock brake systems (ABS brakes).

AUT 2260 Advanced Auto Transmissions and Brake Systems  
3:3:1 On Sufficient Demand  
• Prerequisite(s): AUT 1700 through AUT 1770  
For automotive apprentices. Studies emissions control devices on American and foreign vehicles. Reviews state emissions certification requirements. Covers auto accessories such as wipers, cruise control systems, air bags, and ABS brake systems.

AUT 2270 Advanced Auto Electrical and Emission Controls  
3:3:1 On Sufficient Demand  
• Prerequisite(s): AUT 1700 through AUT 1770  
For automotive apprentices. Studies emissions control devices on American and foreign vehicles. Reviews state emissions certification requirements. Covers auto accessories such as wipers, cruise control systems, air bags, and ABS brake systems.

AUT 2281R Cooperative Work Experience  
1 to 8:0:5 to 40  
• Corequisite(s): AUT 285R

AUT 2700 Advanced Alignment and Electrical Theory  
3:3:1 On Sufficient Demand  
• Prerequisite(s): AUT 1700 through AUT 1770  
For automotive apprentices. Presents advanced theory of laser alignment and electrical accessories. Provides experience in writing and completing individually generated work orders that improve present work performance. May be repeated as desired for interest.
Course Descriptions

AUT 285R
Cooperative Correlated Class
1:1:0  Su, F, Sp
- 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 289R
SkillsUSA
1:1:0  F, Sp
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  Sp
- Prerequisite(s): AUT 1130, AUT 1230
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.

AUT 3350
Alternative Fuel Systems
3:3:0  F
- Prerequisite(s): 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.

AVSC 1020
Aircraft Identification
2:2:0  Sp
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  DE
- Prerequisite(s):
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  Su, F, Sp
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  Su, F, Sp
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.

AVSC 1100
Ground Private Pilot
4:4:0  Su, F, Sp
Introduces the airplane to entry-level student pilots as they prepare for flight training. Stressors 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.

AVSC 1110
Flight Private Pilot Certification
3:2:3  Su, F, Sp
- Pre- 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.

AVSC 1120
Basic Aircraft Systems
1:1:0  F, Sp
- 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.

AVSC 1130
Glider Rating
1:1:1  On Sufficient Demand
- 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
1:1:1  F, Sp
- 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.

AVSC 1160
Seaplane Rating
1:1:1  On Sufficient Demand
- 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 11-12
- Prerequisite(s): AVSC 1100 and AVSC 1110
Covers cross-country airplane flight operations. Stressors 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  Su, F, Sp
- 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.
AVSC 1240
Ground Instrument Pilot
4:4:0  Su, F, Sp
• 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 Airframe Knowledge Test.

AVSC 1250
Flight Instrument Pilot
3:2:2  Su, F, Sp
• 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.

AVSC 1260
21st Century Avionics and Instrumentation
1:1:0  Su, F, Sp
• 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.

AVSC 1310
AMT Procedures and Practices A
5:5:0  On Sufficient Demand
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  On Sufficient Demand
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  On Sufficient Demand
• 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  On Sufficient Demand
• 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  Sp

AVSC 2110
Aviation Weather Applications
3:3:0  Su, F, Sp
• 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.

AVSC 2120
Personal Finance for Aviation Professionals
3:3:0  F, Sp
• 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.

AVSC 2130
Aviation Safety
3:3:0  F
• 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.

AVSC 2150
Air Transportation Management
3:3:0  F
• 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.

AVSC 2160
Aviation Law
3:3:0  Sp
• 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.

AVSC 2170
Airline Interview Preparation
1:1:0  F, Sp
• 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  Su, F, Sp
• 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  Su, F, Sp
• 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 fleet logistics. Introduces responsibilities of dispatchers, routers, maintenance controllers, and general system operations. Covers
Course Descriptions

AVSC 1100

Ground Certified Flight Instructor

Prerequisite(s): AVSC 1200, AVSC 1240, AVSC 2400

1:1:0 F, Sp

AVSC 2400

• Flight Multi-Engine

1:1:1 Su, F, Sp

AVSC 2450

Flight Multi-Engine

Prerequisite(s): AVSC 1100, AVSC 1110

1:1:1 Su, F, Sp

AVSC 2420

Ground Certified Flight Instructor

Prerequisite(s): AVSC 2400

1:1:0 F, Sp

AVSC 2440

• Flight CFI Instrument

Prerequisite(s): AVSC 1230, AVSC 1240

1:1:0 Su, F, Sp

AVSC 2430

Ground CFI Instrument

Prerequisite(s): AVSC 2400

1:1:0 F, Sp

AVSC 2410

Flight CFI Instrument

Prerequisite(s): AVSC 1250

1:1:1 Su, F, Sp

AVSC 2390

Flight CFIT

Prerequisite(s): AVSC 2300, AVSC 2310

1:1:1 Su, F, Sp

AVSC 2300

Ground Flight Instructor CFIT

Prerequisite(s): AVSC 2300, AVSC 2310

3:2:2 Su, F, Sp

AVSC 241R

AIRC 2100

Flight CFI Instrument

1:1:0 F, Sp

AVSC 2330

AMT Airframe Phase III D

Prerequisite(s): AVSC 2300, AVSC 2320

5:5:0 On Sufficient Demand

AVSC 2240

• Accessory Devices, Lubrication Systems, Fuel Systems

5:5:0 On Sufficient Demand

AVSC 2230

AMT Powerplant Phase III D

Prerequisite(s): AVSC 2200, AVSC 2220

5:5:0 On Sufficient Demand

AVSC 2220

AMT Airframe Phase III D

Prerequisite(s): AVSC 1330, AVSC 1340, Must complete all (c) level AMT apprentice courses with grade of C- or better

3:3:0 Su, F, Sp

AVSC 2210

AMT Airframe Phase II C

Prerequisite(s): AVSC 1330, AVSC 1340, Must complete all (c) level AMT apprentice courses with grade of C- or better

3:3:0 Su, F, Sp

AVSC 2200

AMT Powerplant Phase II C

Prerequisite(s): AVSC 1330, AVSC 1340, Must complete all (c) level AMT apprentice courses with grade of C- or better

3:3:0 Su, F, Sp

AVSC 2100

Flight Commercial Pilot

Prerequisite(s): AVSC 2300, AVSC 2310

1:1:1 Su, F, Sp

AVSC 2090

Flight CFIT

Prerequisite(s): AVSC 2300, AVSC 2310

1:1:1 Su, F, Sp

AVSC 2080

Flight CFIT

Prerequisite(s): AVSC 2300, AVSC 2310

1:1:1 Su, F, Sp

AVSC 2070

Flight CFIT

Prerequisite(s): AVSC 2300, AVSC 2310

1:1:1 Su, F, Sp

AVSC 2060

Flight CFIT

Prerequisite(s): AVSC 2300, AVSC 2310

1:1:1 Su, F, Sp

AVSC 2050

Flight CFIT

Prerequisite(s): AVSC 2300, AVSC 2310

1:1:1 Su, F, Sp

AVSC 2040

Flight CFIT

Prerequisite(s): AVSC 2300, AVSC 2310

1:1:1 Su, F, Sp

AVSC 2030

Flight CFIT

Prerequisite(s): AVSC 2300, AVSC 2310

1:1:1 Su, F, Sp

AVSC 2020

Flight CFIT

Prerequisite(s): AVSC 2300, AVSC 2310

1:1:1 Su, F, Sp

AVSC 2010

Flight CFIT

Prerequisite(s): AVSC 2300, AVSC 2310

1:1:1 Su, F, Sp

AVSC 2000

Flight CFIT

Prerequisite(s): AVSC 2300, AVSC 2310

1:1:1 Su, F, Sp
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.

AVSC 2750
Ground Multi-Engine Instructor
1:1:0  F, Sp
- Prerequisite(s): AVSC 2300, AVSC 2310
- Corequisite(s): AVSC 2500
Prepares students for various maneuvers and operations 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.

AVSC 2760
Flight Multi-Engine Instructor
1:1:0  Su, F, Sp
- 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.

AVSC 2710
Aviation Marketing and Customer Service
3:3:0  Su, F, Sp
- 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.

AVSC 2750
Unmanned Aircraft Systems
3:3:0  Su, F, Sp
- 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.

AVSC 276R
Current Topics in Aviation
1 to 3:1 to 3:0  Su, F, Sp
- 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 to 40  On Sufficient Demand
- 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 advisor 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. Graded credit/no credit.

AVSC 285R
Cooperative Related Class
1:1:0  On Sufficient Demand
- 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  On Sufficient Demand
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  F
- Prerequisite(s): AVSC 1240
Teaches interpretation, selection, and compilation of appropriate weather data. Examines METAR, TAF, PIREPS, AIRMET’S, SIGMET’s and other sources of applicable weather information. Uses sample reports, data, and charts. Includes class and group discussion, lecture, practical example, and case studies.

AVSC 3020
Aviation Insurance and Risk Management
3:3:0  Su, F, Sp
- Prerequisite(s): AVSC 2130
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 governmental and insurance requirements. Analyzes basic underwriting procedures and requirements. Presents basic principles of hazardous materials handling in aviation.

AVSC 3030
Air Traffic Management
3:3:0  F
- Prerequisite(s): AVSC 2150, AVSC 2160
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.

AVSC 3040
Air Traffic Control II
3:3:0  Sp
- Prerequisite(s): AVSC 3030
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.

AVSC 3060
Airline Management
3:3:0  Su, F, Sp
- Prerequisite(s): AVSC 2150, AVSC 2160
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.

AVSC 3070
Aviation Cargo Operations
3:3:0  Su, F, Sp
- Prerequisite(s): AVSC 2150
Studies air cargo history and industry development. Teaches air cargo scheduling and supply chain administration. Explores aircraft options and conversions and airport and logistical considerations. Discusses shipping and air cargo regulations including hazard material (hazmat) and security issues. Explores domestic and international air cargo considerations.

AVSC 3090
Airline and Dispatch Operations
3:3:0  Su, F, Sp
- Prerequisite(s): AVSC 2150, AVSC 2160, and (AVSC 2110 or AVSC 2301)
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.

AVSC 3100
Corporate Aviation Management
3:3:0  F
- Prerequisite(s): AVSC 2150
Introduces basic principles of corporate flight department management. Discusses regulatory requirements in corporate aviation, acquisition
Course Descriptions

procedures, insurance requirements, and pilot certification programs. Explores fractional ownership programs and management.

AVSC 3110 Aircraft Accident Investigation
3:3:0 Sp
- Prerequisite(s): AVSC 2150, AVSC 2160

Presents advanced safety 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.

AVSC 3120 Airport Management
3:3:0 Sp
- Prerequisite(s): AVSC 2150, AVSC 2160

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.

AVSC 3140 Fixed Base Operations Management
3:3:0 Sp
- Prerequisite(s): AVSC 2150

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 3200 Flight Physiology
3:3:0 F
- Prerequisite(s): AVSC1240

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.

AVSC 3210 Aircraft Incident and Emergency Management
3:3:0 Sp
- Prerequisite(s): AVSC 2130

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.

AVSC 3220 Aircraft Accident Investigation
3:3:0 F
- Prerequisite(s): AVSC 2160

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 Su, F, Sp
- Prerequisite(s): AVSC 3210 or AVSC 3220

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 Su, F, Sp
- Prerequisite(s): AVSC 3210 or AVSC 3220, ENGL 1010

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 F
- Prerequisite(s): AVSC 2300, AVSC 2440

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.

AVSC 3310 Aviation Logistics Management
3:3:0 Su, F, Sp
- Prerequisite(s): AVSC 2150 and MGMT 3010

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.

AVSC 3350 Aviation Labor and Human Resource
3:3:0 DE
- Prerequisite(s): AVSC 2150, AVSC 2160 and MGMT 3010

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.

AVSC 3400 High Altitude Navigation/International Flight Operations
3:3:0 Sp
- Prerequisite(s): AVSC 3200

Covers 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

AVSC 3530 Advanced Aerodynamics
3:3:0 Sp
- Prerequisite(s): AVSC 3300 and MAT 1010

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.

AVSC 3600 Crew Resource Management
3:3:0 F
- Prerequisite(s): AVSC 3110

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.

AVSC 3610 Aviation Safety and Security
3:3:0 F
- Prerequisite(s): AVSC 2050

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 Su, F, Sp
- Prerequisite(s): AVSC 3220

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 of the findings of an aircraft investigation and probable vs. proximate cause.

AVSC 4020 Applied Aviation Finance
3:3:0 Su, F, Sp
- Prerequisite(s): AVSC 2150 and ACC 3000

Examines financial management in the aviation corporate and public sectors and the role of financial markets and institutions. Introduces finance terminology and techniques. 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.

AVSC 410G Global Ethical and Professional Issues in Aviation
3:3:0 F
- Prerequisite(s): AVSC 3600, PHIL 2050, and (ENGL 1010 or ENGL 2020)

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.

**AVSC 4210**  
**Flight Turbine Transition**  
1:0:3  
*On Sufficient Demand*  
- Prerequisite(s): AVSC 2300, AVSC 2310  
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  
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/Dispatcher (ATP); FAA Airline Transport Pilot Airplane (135); and Aircraft Dispatcher (ADX) Knowledge Tests.

**AVSC 4310**  
**Flight Airline Transport Pilot**  
1:0:3  
*On Sufficient Demand*  
- Prerequisite(s): AVSC 2300, AVSC 2310  
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 Airplane Practical Test.

**AVSC 4700**  
**Safety and Professional Seminars**  
3:3:0  
*Sp*  
- Prerequisite(s): AVSC 3600 and (ENGL 2010 or ENGL 2020)  
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.

**AVSC 475R**  
**Current Topics in Aviation**  
1 to 3:1 to 3:0  
*F, Sp*  
- Prerequisite(s): AVSC 1010  
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 six credits toward graduation.

**AVSC 4800**  
**Professional Pilot Capstone**  
4:4:0  
*Sp*  
- Prerequisite(s): AVSC 3300  
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.

**AVSC 481R**  
**Cooperative Work Experience**  
1 to 8:0:5 to 40  
*On Sufficient Demand*  
- 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. Graded credit/no credit.

**AVSC 485R**  
**Cooperative Related Class**  
1:1:0  
*On Sufficient Demand*  
- Prerequisite(s): Current job in an aviation related field.  
- Corequisite(s): AVSC 481R  
For upper division Aviation Science majors. The course is 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 4900**  
**Aviation Administration Capstone**  
3:3:0  
*Sp*  
- Prerequisite(s): AVSC 3350 and AVSC 4020  
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.

**AVSC 491R**  
**Undergraduate Research Project**  
3 to 6:2:3 to 12  
*Su, F, Sp*  
- Prerequisite(s): AVSC 3200, AVSC 3600, and (ENGL 2010 or ENGL 2020), Matriculation into Bachelor’s Degree  
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 six credits.

**BCCM—Building Construction and Construction Management**

**BCCM 1110**  
**Principles of Residential Framing**  
3:3:0  
*Not 11-12*  
- Pre-or Corequisite(s): BCCM 1120  
Prepares students with a detailed understanding of residential construction delivery methods and practices, terms and systems including site work, foundations, floor and roof systems. Includes guest lectures, field trips, and associated hands-on demonstrations.

**BCCM 1120**  
**Blueprint Reading**  
2:2:0  
*Not 11-12*  
Prepares students with a detailed understanding of construction prints, documents, and specifications utilizing CSI standards. Includes review of commercial and residential plans and supporting architectural, structural, mechanical, electrical and plumbing details.

**BCCM 1130**  
**Concrete and Masonry**  
1:1:0  
*Not 11-12*  
Studies fundamental principles of quality concrete and masonry, including admixtures and proper techniques of placing, curing, and testing. Also includes practical experience in concrete block and brick construction laying. Uses assigned written and oral response.

**BCCM 1150**  
**Building Construction Safety**  
1:1:0  
*Not 11-12*  
Prepares students to interpret OSHA standards and common safety rules for the job site; including hand-tools, power-tools, ladders, scaffolds, etc. Covers disposal of hazardous wastes and maintenance of a clean environment.

**BCCM 1160**  
**Stair Design and Construction**  
1:1:0  
*Not 11-12*  
Studies the principles of mathematically correct stairs along with the various styles and types of stair cases. Analyzes residential and commercial problems in accordance with building codes.

**BCCM 1170**  
**Principles of Mechanical Electrical and Plumbing Design**  
2:2:0  
*Not 11-12*  
- Pre- or Corequisite(s): BCCM 1120  
Serves as a general overview of Mechanical, Electrical, and Plumbing systems, focusing on the codes required for each area of work and the design loads in each area.

**BCCM 1190**  
**Framing and Concrete Lab**  
5:0:15  
*Not 11-12*  
- Prerequisite(s): BCCM 1150  
- Pre- or Corequisite(s): BCCM 1110  
Provides practical lab experience in concrete work and framing from sill plate through rafters. Includes supervisory and group decision making practice.
Course Descriptions

**BCCM 1210**
Principles of Finish Carpentry 3:3:0  Not 11-12
- Pre- or Corequisite(s): BCCM 1120
Prepares students with a general overview of residential and commercial finish carpentry design principles and applications. Explains finish construction delivery methods and practices, terms and systems including interior/Exterior trim and finishes. Includes guest lectures, field trips, and associated hands-on demonstrations.

**BCCM 1220**
Finishing Lab 5:0:15  Not 11-12
- Pre- or Corequisite(s): BCCM 1210
Provides practical lab experience in interior and exterior finishing including doors, windows, moldings, gypsum board, cabinets, siding, and roofing.

**BCCM 1230**
Construction Estimating 2:2:0  Not 11-12
- Pre requisite(s): BCCM 1120, BCCM 1110, (EGDT 1600 or MATH 1030 or higher)
Prepare students with step-by-step procedures used to estimate and prepare material and labor takeoffs for construction systems. Students create complete estimating data sheets using spreadsheet software from working drawings and specifications.

**BCCM 1240**
Roofs Stairs and Specialty Framing 3:3:0  Not 11-12
- Pre requisite(s): BCCM 1120, BCCM 1110, (EGDT 1600 or MATH 1030 or higher)
Studies basic principles of all types of roof framing, stair design and specialty framing. Includes practical lab experience in laying out and constructing technically difficult framing systems.

**BCCM 1250**
Utah Contractors License Regulation and Procedure 2:2:0  Not 11-12
- Pre requisite(s): ENGL 1010, CMGT 1010
Prepares students for the Utah Contractors Business Law Exam with the information necessary to create, document and manage business entities, Surveys legal business entities. Studies Utah license law, good construction management practices, lien laws, labor laws, and tax laws.

**BCCM 1260**
Computer Estimating 2:1:2  Not 11-12
- Pre requisite(s): BCCM 1230; Computer Proficiency or DGM 2010 (Highly Recommended)
Explores different industry computer applications utilized in creating construction estimates, bids, reports, and quotes. Offers instruction in database management and on-screen takeoff sheets.

**BCCM 281R**
Cooperative Work Experience 1 to 8:0:5 to 40  Su, F, Sp
- Pre- or Corequisite(s): BCCM 285R
For Building Construction majors. Provides 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.

**BCCM 285R**
Cooperative Correlated Class 1:1:0  Su, F, Sp
- Corequisite(s): BCCM 281R
For Building Construction majors. Provides 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 taken for 1 credit toward graduation.

**BCCM 299R** (Cross-listed with: CAW 299R)
Skills USA 1:1:0  Not 11-12
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.

**BESC—BEHAVIORAL SCIENCE**

**BESC 1000**
Behavioral Science Forum 2:2:0  F, Sp
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 2705**
Ethics for the Behavioral Sciences 3:3:0
- Prerequisite(s): (PSY 1010 or SOC 1010 or ANTH 1010 or SOC 1010 or ANTH 1010G 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 3010**
Statistics for the Behavioral Sciences 4:4:0  Su, F, Sp
- Prerequisite(s): MAT 1000 or higher, and (PSY 1010 or SOC 1010), and (admission into BSW program or declared major in Behavioral Science).
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.

**BESC 3020**
Research Methods for the Behavioral Sciences 3:3:0  Su, F, Sp
- Prerequisite(s): (ENGL 2010 or ENGL 2020 with a grade of C+ or higher) and (PSY 1010 or SOC 1010) and (BESC 3010) and admission into BSW program or declared major in Behavioral Science.
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.

**BESC 3100**
Career and Graduate School Preparation for Behavioral Science Majors 3:3:0  F, Sp
- Prerequisite(s): (PSY 1010 or SOC 1010 or SW 1010 or COMM 1050)
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.

**BESC 3410** (Cross-listed with: COMM 3410)
Fundamentals of Mediation and Negotiation 3:3:0  Sp, F
- Prerequisite(s): PSY 1010 or SOC 1010 or SW 1010 or COMM 1050
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.

**BESC 3420** (Cross-listed with: COMM 3420)
Communication and Conflict 3:3:0
- Prerequisite(s): BESC 3410 or COMM 3410 or COMM 2110 or LEGL 3150
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.

**BESC 3550**
Thanatology—Death and Dying 3:3:0  On Sufficient Demand
- Prerequisite(s): (PSY 1010 or SW 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher)
Introduces students to the subject of thanatology. Reviews theories and research associated with death and dying. Examines death systems, cultural
and outcome using research.

Integrates traditional psychological research

Introduces students to the field of clinical research.

3:3:0 F

Clinical Research

BESC 4050

Develops knowledge of and skill in clinical interviewing. Familiarizes students with a broad range of clinical interviewing skills. Uses class discussions, video clips of master clinicians, instructor modeling, in-class practice, videotaped role plays, and class and instructor evaluations of role plays.

BESC 4030

Introduction to Practice Evaluation and Grant Writing

3:3:0 F

Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or better) and BESC 3010 and BESC 3020

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

Applied Behavioral Science Research

3:3:0 Sp, F

Prerequisite(s): BESC 3010 and BESC 3020 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and BESC 3010 and BESC 3020

Introduces psychological theory, methods, and knowledge to actively analyze and engage problems facing a variety of clients. Discusses a variety of organizations including businesses, government, religion, social science, health care, criminal justice, and others. Utilizes psychological tools to identify, investigate, and actively seek viable solutions to issues that can be applied by organizations to achieve greater success. Requires students to develop, carry out, and professionally present an original research project.

BESC 4050

Clinical Research

3:3:0 F

Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and BESC 3010 and BESC 3020

Introduces students to the field of clinical research. Integrates traditional psychological research methods and the area of clinical practice. Uses the scientist-practitioner model to demonstrate common research methodologies and examine clinical outcomes. Applies quantitative and qualitative methods in a clinical setting. Focuses on determining the effectiveness of therapeutic process and outcome using research.

BIOL—BIOLOGY

BIOL 1010**

General Biology

3:3:0 F, Sp, Su

Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL1010 (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.

BIOL 1015

General Biology Laboratory

1:2:0 Su, F, Sp

Prerequisite(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

General Biology

3:3:0 BB F, Sp

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 F

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

Prehistoric Life

3:3:0 BB Sp

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

Biological Anthropology

3:3:0 BB F

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

College Biology I

4:4:0 BB F, Sp

Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL1010 (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

College Biology I Laboratory

1:3:0 BB F, Sp

Pre- or Corequisite(s): BIOL 1610

Laboratory course to accompany BIOL 1610. Topics covered include scientific method, biomolecules, cell structure and function, cellular reproduction,
Course Descriptions

Mendelian and molecular genetics, DNA technology, and evolution.

BIOL 1616
College Biology I Laboratory for Biotechnology Majors
1:0:4 F, Sp
- Pre- or Corequisite(s): BIOL 1610
- Laboratory course to accompany BIOL 1610. Required for Biotechnology majors. Covers scientific method, biomolecules, cell structure and function, cellular reproduction, genetics, and DNA technology.

BIOL 1620 BB
College Biology II
3:3:0 F, Su, Sp
- Prerequisite(s): BIOL 1610
- 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 Su, F, Sp
- Corequisite(s): BIOL 1620
Laboratory course to accompany BIOL 1620. Topics covered include animal biology and diversity and plant biology and diversity.

BIOL 202R (Cross-listed with GEO 202R)
Science Excursion
1:0:2 Su, F, Sp
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)
Natural History Excursion
3:1:6 BB Su
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.

BIOL 2500 BB
Environmental Biology
3:3:0 F
- Prerequisite(s): BIOL 1010 or BIOL 1610 is recommended
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.

BIOL 290R
Special Topics In Biology
3:3:0 On Sufficient Demand
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.

BIOL 295R
Independent Studies in Life Sciences
1 to 4:0:3 to 12 Su, F, Sp
- Prerequisite(s): At least 3 credit hours of college level biology, approval of a faculty mentor, and approval of the department chair
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.

BIOL 3300 Developmental Biology
3:3:0 F
- Prerequisite(s): BIOL 1620
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.

BIOL 3400 Cell Biology
3:3:0 F, Sp
- Prerequisite(s): BIOL 1610 and CHEM 1220
For Biology majors or those desiring more knowledge of this subject. Studies the cell as an organism emphasizing structure and function correlations.

BIOL 3405 Cell Biology Laboratory
1:0:3
- Prerequisite(s): BIOL 1610 and CHEM 1220 or higher
- Corequisite(s): BIOL 3400
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.

BIOL 3500 Genetics
3:3:0 F, Sp
- Prerequisite(s): BIOL 1610
- Corequisite(s): BIOL 3505
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 in other aspects of biology. Requires a weekly lab.

BIOL 3505 Genetics Tutorial
0:5:1
- Prerequisite(s): BIOL 1610
- Corequisite(s): BIOL 3500
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.

BIOL 3515 Advanced Genetics Laboratory
1:0:4 F
- Pre- or Corequisite(s): BIOL 3500
Examines advanced aspects of classical and molecular genetic transmission and analysis. Provides hands-on experience with the methods of classical and molecular genetics.

BIOL 3550 Molecular Biology
3:3:0 F
- Prerequisite(s): BIOL 1610 and CHEM 1215
Examines structure, organization, replication, and expression of the genome, and methods for study of genome structure and function.

BIOL 3555 Experiments in Molecular Biology
1:0:3 F
- Corequisite(s): BIOL 3550
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.

BIOL 3600 (Cross-listed with: CHEM 3600)
Biological Chemistry
3:3:0 F, Sp
- Prerequisite(s): CHEM 2320
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, enzymatics, thermodynamics, membrane dynamics and related processes within a living cell. Emphasizes molecular mechanisms of reactions and their outcomes.

BIOL 3605 (Cross-listed with: CHEM 3605)
Biochemistry Laboratory
1:0:4 On Sufficient Demand
- Corequisite(s): BIOL 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.

BIOL 3650 Biotechnology
2:1:3 On Sufficient Demand
- Prerequisite(s): MICR 3450, BIOL 3600
- Corequisite(s): BIOL 3500
Primarily for students majoring in Biology. Teaches
principles of biotechnology including DNA purification and cloning, protein expression and analysis. Studies DNA sequencing, restriction fragment length polymorphism analysis, electrophoresis, cell culture, and polymerase chain reaction techniques. Includes laboratory experience.

BIOL 3700 General Ecology 3:0 F, Sp  
- Preerequisite(s): BIOL 1620 (or equivalent with instructor consent)  
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.

BIOL 3705 General Ecology Laboratory 1:0:2 On Sufficient Demand  
- 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 storage and statistical analysis, graphical representation of data, and scientific writing.

BIOL 3800 Conservation Biology 3:0 Sp  
- Prequisite(s): BIOL 1010 or BIOL 1620 (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.

BIOL 4000 Freshwater Ecology 4:3:2 Su  
- Prequisite(s): BIOL 1620 and (BIOL 2500 or BIOL 3700)  
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.

BIOL 4200 (Cross-listed with CHEM 4200, GEO 4200) Teaching Methods in Science 3:0 Sp  
- Prequisite(s): Acceptance into secondary education program and department approval  
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 425R Biology for Teachers 1.0 to 5:1.0 to 5.0:0.0 to 10.0  
- Prequisite(s): Departmental Approval  
For licensed teachers or teachers seeking to recertify, an update course in biology content and/or basic biology courses for the 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. 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.

BIOL 4260 Ethical Issues in Biology 2.0:1.0:2 On Sufficient Demand  
- Prequisite(s): BIOL 1610, BIOL 1620, and PHIL 2050  
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  
- Prequisite(s): BIOL 1610, BIOL 3400  
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 3:0 Sp  
- Prequisite(s): MICR 2060 or MICR 3450 or ZOOL 2420  
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 Immunology Laboratory 1:0:2 Sp  
- 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.

BIOL 4500 Principles of Evolution 3:0 F, Sp  
- Prequisite(s): BIOL 1620 and BIOL 3500 and senior status  
- Pre- or 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 3:0 Sp  
- Prequisite(s): BIOL 1610 and BIOL 3500 and minimum of 6 additional credits upper division biology (BIOL, BOT, MICR, ZOOL, BTEC) courses.  
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 4:0:5 to 20  
- Prequisite(s): BIOL 1620 and Instructor Approval  
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.

BIOL 489R Student Research 1 to 4:0:3 to 12  
- Prequisite(s): BIOL 1620, CHEM 1210, Junior or Senior Standing, and instructor permission  
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 four credits toward graduation.

**BIT 490R**
Special Topics in Biology
1 to 4:0 to 4:0 to 8  On Sufficient Demand
- Prerequisite(s): BIOL 1620
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.

**BIT 494R**
Seminar
1:0  F, Sp
- Prerequisite(s): BIOL 1620 and junior 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 BIT 490R. 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 two credits toward graduation.

**BIT 499R**
Senior Thesis
1 to 2:0 to 3 to 6  Su, F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020, junior standing and instructor permission
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 BIT 490R. 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 two credits toward graduation.

**BIT—Building Inspection Technology**

**BIT 1010**
Building Codes
3:3:0  Su, F, Sp
Teaches the nonstructural standards of the Uniform Building Code. Includes occupancy classifications, building area, height and location limits, exit requirements, and fire-resistant standards.

**BIT 1020**
Residential Codes
3:3:0  F, Sp
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.

**BIT 1170**
Field Lab—Building Codes
1:0:3  Su, F, Sp
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  F, Sp
- 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.

**BIT 1240**
Plumbing Codes
3:3:0  Su, F, Sp
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.

**BIT 1330**
Mechanical Codes
3:3:0  Su, F, Sp
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, ducts, ventilation, refrigeration, kitchen hood and ducts, fuel-gas piping, appliance venting, combustion air, and related requirements.

**BIT 1340**
Electrical Codes
3:3:0  Su, F, Sp
Studies the National Electrical Code in its entirety. Covers electrical wiring systems, methods, electrical equipment, special occupancies, special equipment, special conditions, and communication systems.

**BIT 1380**
Ride-Along Lab
1:0:3  Su, F
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 between BIT 281R and BIT 285R.

**BIT 281R**
Cooperative Work Experience
1 to 8:0 to 8  F, Sp
- 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 between BIT 281R and BIT 285R.

**BIT 285R**
Cooperative Correlated Class
1:1:0  F, Sp
- Corequisite(s): BIT 281R the first time only
For Building Inspection Technology Majors.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 2100</td>
<td>Flora of Utah</td>
<td>Includes field trips and laboratory work. Student plant collection required.</td>
<td>None. BIOL 1010 is recommended for A vascular plant taxonomy course for intended students. Includes field trips and laboratory work.</td>
</tr>
<tr>
<td>BOT 2400</td>
<td>Plant Kingdom</td>
<td>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 groups. Includes lab work.</td>
<td>None. BIOL 1610 is recommended for Introduction to Grasses.</td>
</tr>
<tr>
<td>BOT 3340</td>
<td>Plant Biology</td>
<td>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 level to the whole plant level, including aspects of plant anatomy, physiology, reproduction, growth and development with emphasis on the angiosperms (flowering plants). Includes lab work.</td>
<td>None. BIOL 1610 is recommended for Introduction to Grasses.</td>
</tr>
<tr>
<td>BOT 4100</td>
<td>Plant Anatomy</td>
<td>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 lab work.</td>
<td>None. BIOL 1610 is recommended for Introduction to Grasses.</td>
</tr>
<tr>
<td>BOT 4200</td>
<td>Vascular Plant Taxonomy</td>
<td>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 lab work.</td>
<td>None. BIOL 1610 is recommended for Introduction to Grasses.</td>
</tr>
<tr>
<td>BOT 4300</td>
<td>Woody Plants of Utah</td>
<td>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.</td>
<td>None. BIOL 1620 is recommended for Plant Physiology Laboratory.</td>
</tr>
<tr>
<td>BOT 4430</td>
<td>Plant Pathology</td>
<td>Teaches the fundamental concepts of plant pathology. Discusses plant disease symptoms and organisms that cause those diseases and methods of control and diagnosis of diseases. Includes required laboratory.</td>
<td>None. BIOL 3300 is recommended for Plant Pathology Laboratory.</td>
</tr>
<tr>
<td>BOT 4500</td>
<td>Introduction to Grasses</td>
<td>Discusses grasses and their relatives, grass anatomy, taxonomy, and ecology. Emphasizes identification techniques. Includes heavy lab component and required field trips. Requires student plant collection.</td>
<td>None. BIOL 1610 is recommended for Introduction to Grasses.</td>
</tr>
<tr>
<td>BOT 4600</td>
<td>Plant Physiology</td>
<td>Covers 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.</td>
<td>None. BIOL 1620 is recommended for Plant Physiology Laboratory.</td>
</tr>
<tr>
<td>BOT 4605</td>
<td>Plant Physiology Laboratory</td>
<td>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.</td>
<td>None. BIOL 1610 is recommended for Plant Physiology Laboratory.</td>
</tr>
<tr>
<td>BOT 4700</td>
<td>Plant Tissue Culture</td>
<td>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.</td>
<td>None. BIOL 1610 is recommended for Plant Physiology Laboratory.</td>
</tr>
<tr>
<td>BTEC 1010</td>
<td>DNA Manipulation and Analysis</td>
<td>Explores the field of DNA technology, including recombinant DNA cloning, DNA gel electrophoresis, polymerase chain reaction and DNA analysis. Explore cutting-edge techniques such as DNA micro arrays.</td>
<td>None. BIOL 1610 is recommended for Plant Physiology Laboratory.</td>
</tr>
<tr>
<td>BTEC 2020</td>
<td>Protein Purification and Analysis</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.</td>
<td>None. BIOL 1610 is recommended for Plant Physiology Laboratory.</td>
</tr>
<tr>
<td>BTEC 2030</td>
<td>Cell Culture Techniques</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.</td>
<td>None. BIOL 1610 is recommended for Plant Physiology Laboratory.</td>
</tr>
<tr>
<td>BTEC 2040</td>
<td>Advanced Nucleic Acid Laboratory</td>
<td>Teaches modern 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>
<td>None. BIOL 1610 is recommended for Plant Physiology Laboratory.</td>
</tr>
<tr>
<td>BTEC 290R</td>
<td>Special Topics in Biotechnology</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 6 credits toward graduation.</td>
<td>None. BIOL 1610 is recommended for Plant Physiology Laboratory.</td>
</tr>
<tr>
<td>BTEC 481R</td>
<td>Biotechnology Internship</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.</td>
<td>None. BIOL 1610 is recommended for Plant Physiology Laboratory.</td>
</tr>
<tr>
<td>BTEC 490R</td>
<td>Special Topics in Biotechnology</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 10 credits toward graduation.</td>
<td>None. BIOL 1610 is recommended for Plant Physiology Laboratory.</td>
</tr>
</tbody>
</table>
Course Descriptions

CA—CULINARY ARTS

CA 1120
Cooking Skills Development
4.5:2:7.5 F, Sp
• Prerequisite(s): Matriculation and acceptance into the Culinary Arts Institute
• Corequisites(s): CA 1170, CA 1310
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.

CA 1140
Professional Dining Room Services
1:0:1.5 F, Sp
• Prerequisite(s): Matriculation and Acceptance into the Culinary Arts Institute
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.

CA 1150
Nutrition and Food Service
3:3:0 F, Sp
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 the role of value added dessert items, and banquet and catering dessert requirements.

CA 1160
Culinary Math
1:1:0 F, Sp
• Prerequisite(s): Matriculation and Acceptance into the Culinary Arts Institute
Allows culinary professionals to utilize all the tools necessary to manage daily food service operations for maximum efficiency and profitability. Reviews basic math functions then expands into recipe conversion, yields, recipe costing, and menu costing.

CA 1170
Pastry and Baking Skills
4.5:2:7.5 F, Sp
• 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.

CA 1180
Professional Kitchen Garde Manger
4.5:2:7.5 F, Sp
• Prerequisite(s):CA 1120 and CA 1170
• Corequisites(s):CA 1230
Emphasizes proper preparation of cold food items. Includes preparation of tossed, compound and composed salads, cold dressings, salads, salad bar items, displayed platters, assorted forcemeat, smoked and cured items, along with marinated and assorted cold first course items.

CA 1230
Professional Kitchen I--Cooking
4.5:2:7.5 F, Sp
• 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.

CA 1240
Professional Kitchen I--Baking/Pastry
4.5:2:7.5 F, Sp
• Prerequisite(s): CA 1120 and CA 1130
• Corequisite(s): CA 1230
Continuation of CA 1130. 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 banquet and catering dessert requirements.

CA 1260
Culinary Spanish
1:1:0 F, Sp
• 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 F, Sp
• 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.

CA 1320
Culinary Management
3:3:0 F, Sp
• 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 Not 11-12
• 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 F, Sp
• Prerequisite(s): CA 282R
• Corequisites(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.

CA 2130
Advanced Pastry Baking
4.5:2:7.5 F, Sp
• Prerequisite(s): CA 1170
• Corequisites(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 banquet and catering dessert requirements.

CA 2430
Menu/Facilities Design and Beverage Management
3:3:0 Not 11-12
• 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 F, Sp
• 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, and techniques and formula development.

CA 2760
Pastry
5:3:6 On Sufficient Demand
Prerequisite(s): Instructor approval
Combines patisserie skills learned in other culinary arts classes to develop advanced skills in the production of fine baked products. Stresses the use of standardized recipes and procedures. Includes cakes, tortes, pastries, chocolate, and desserts. Provides daily end-product critiquing.

CA 282R
Culinary Arts Internship
1 to 8:0 to 2:5 to 40 F, Sp
Prerequisite(s): Culinary Arts Institute Director Approval
Provides a transition from school to work where learned theory is applied to actual practice through a meaningful on-the-job experience commensurate with classroom instruction. May be repeated for up to eight hours toward graduation in the Culinary Arts degree.

CA 296R
Culinary Arts Seminar
1 to 3:1 to 3:0 to 3 Not 11-12
Prerequisite(s): Instructor 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 F, Sp
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 F, Sp
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.

CA 481R
Cooperative Work Experience
2 to 9:1:5 to 40 F, Sp, Su
Prerequisite(s): Approval of Woodbury School of Business Career and Corporate Manager
For upper division students working towards a Bachelor of Science Degree in Hospitality Management with an emphasis in Food and Beverage. Provides opportunities to apply classroom theory on the job. Students work in a restaurant kitchen while enrolled at the institution. 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 a Bachelor of Science Degree in Hospitality Management. Courses will be graded credit/no credit.

CAW 100R
Survey of Working with Wood
2:0:5 F, Sp
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.

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 1101
Millworking Shop I
5:3:0 Sp
Provides a lab for information on fire protection and insurance, beginning construction techniques, and general safety. Covers basic construction techniques, tools, and safety equipment. Stresses safety.

CAW 1102
Millworking Shop II
3:2:4 Sp
Provides an extension of Millworking Shop I. Stresses safety. Requires the use of a variety of tools and safe techniques. Emphasizes quality cabinetmaking. Covers efficient timesaving appearance, materials, and construction for projects. Stresses safety.

CAW 1110
ArChiteCturAl WoodWork
1:1:0 F

CAW 1120
Cabinetmaking Materials and Hardware
3:0:10 Sp
Provides a course for those interested in learning about materials and hardware used in the woodworking industry. Covers selection, installation, and maintenance of hardware.

CAW 1131
Millworking and Safety Shop I
3:1:2 F
Covers basic safety techniques, tools, and safety equipment. Stresses safety. Requires the use of a variety of tools and safe techniques. Emphasizes quality cabinetmaking. Covers efficient timesaving appearance, materials, and construction for projects. Stresses safety.

CAW 1132
Millworking and Safety Shop II
3:0:6 Sp
Provides an extension of Millworking Shop I. Stresses safety. Requires the use of a variety of tools and safe techniques. Emphasizes quality cabinetmaking. Covers efficient timesaving appearance, materials, and construction for projects. Stresses safety.

CAW 1140
Millworking and Safety Shop I
5:0:15 Sp
A lab for information on fire protection and insurance, beginning construction techniques, and general safety. Covers basic construction techniques, tools, and safety equipment. Stresses safety.

CAW 1141
Millworking and Safety Shop II
2:5:0:7:5 F
Laboratory for Cabinetetry students. Covers half of CAW 1140. Teaches fundamentals of woodworking machinery and standard millwork operations. Studies correct construction techniques. Teaches safety the first 15 hours and stressed throughout the course.

CAW 1142
Millworking and Safety Shop I
2:5:0:7:5 Sp
Laboratory for Cabinetetry students. Covers half of CAW 1140. Teaches fundamentals of woodworking machinery and standard millwork operations. Studies correct construction techniques. Teaches safety the first 15 hours and stressed throughout the course.

CAW 1150
Design Drafting and Billing
3:0:0 F
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 F
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.

CAW 1210
Cabinetmaking Materials and Hardware
1:1:0 F
Provides an introduction to the design, construction, and proper installation of cabinets and furniture. Covers selection, installation, and maintenance of hardware.

CAW 1220
Countertop Technology
3:3:0 Sp
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.

CAW 2100
Cabinetmaking Math
1:1:0 F
Teaches basic math skills needed for cabinetmakers. Covers 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.
Course Descriptions

CAW 2340
Millworking Shop III
5:0:15
F
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.

CAW 234A
Millworking Shop III
2.5:0:7.5
F
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.

CAW 234B
Millworking Shop III
2.5:0:7.5
Sp
Custom cabinetmaking shop. Covers half of CAW 2340. 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.

CAW 2430
Commercial Cabinetry Technology
4:1:9
F
Studies zoning, shop flow, and production set. Includes field trip to commercial cabinet shop. Teaches set up of machines used in the industry.

CAW 2440
Millworking Shop IV
5:0:15
Sp
A culminating architectural woodworking shop. Students build projects demonstrating advanced skills learned in previous shop courses.

CAW 244B
Millworking Shop IV
2:0:5
Sp
Culminates previous architectural woodworking courses. Covers half of CAW 2440. Requires advanced skills, learned previously, to complete projects.

CAW 2450
Machine Maintenance and Upkeep
2:2:0
Not 11-12
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
F, Sp
- 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.

CAW 285R
Cooperative Correlated Class
1:1:8
F, Sp
- 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
F, Sp
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.

CHEM 1010
Introduction to Chemistry
3:0:3
Su, F, Sp
- Prerequisite(s): MATH 1010 or equivalent
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 1100
Elementary Chemistry for the Health Sciences
4:4:0
Su, F, Sp
- 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
Su, F, Sp
- Prerequisite(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.

CHEM 1220
Principles of Chemistry II
4:4:0
Su, F, Sp
- Prerequisite(s): CHEM 1210
- 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
Su, F, Sp
- Prerequisite(s): CHEM 1215
- Corequisite(s): CHEM 1220
Continuation of Chemistry 1210. Primarily for students in the physical and biological sciences and engineering. Continuation of CHEM 1215. Experiments follow topics in CHEM 1220.

CHEM 2310
Organic Chemistry I
4:4:0
F, Sp
- Prerequisite(s): CHEM 1210 and CHEM 1220
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 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
F, Sp
- 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 identification and reactions of organic functional groups and conducts experiments with biomolecules.
molecules. Explores the relationship between structure and reactivity of organic functional groups. Introduces the concepts of nomenclature, stereochemistry, and reaction mechanism.

Chemistry Laboratory (CHEM 2315) 1:0:4 F, Sp
- 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 separatory, 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.

Chemistry Laboratory (CHEM 2320) 4:4:0 F, Sp
- Prerequisite(s): CHEM 2310
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.

Chemistry Laboratory (CHEM 2325) 1:0:4 F, Sp
- 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.

Chemistry Laboratory (CHEM 3000) 2:2:0 F
- Prerequisite(s): CHEM 2320, CHEM 2325
- 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.

Chemistry Laboratory (CHEM 3005) 2:0:6 F
- Prerequisite(s):CHEM 2320, CHEM 2325
- 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.

Environmental Chemistry (CHEM 3020) 3:3:0 F
- Prerequisite(s): CHEM 3060
Studies the chemistry of soil, ground water, hazardous waste, and the atmosphere. Explores current environmental concerns and issues.

Environmental Chemistry Laboratory (CHEM 3025) 1:0:3 On Sufficient Demand
- Prerequisite(s): CHEM 1225
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.

Physical Chemistry I (CHEM 3060) 4:4:0 F
- Prerequisite(s): PHYS 2220, MATH 2210
Introduces laws of thermodynamics and chemical thermodynamics. Covers changes of state and equilibrium. Introduces quantum mechanics.

Physical Chemistry II (CHEM 3070) 4:4:0 Sp
- Prerequisite(s): CHEM 3060
Continuation of Chemistry 3060. Covers quantum mechanics, spectroscopy, kinetics, and statistical thermodynamics.

Physical Chemistry III Statistical Mechanics and Chemical Kinetics (CHEM 3080) 3:3:0
- Prerequisite(s):CHEM 3070
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.

Physical Chemistry Applications in Biology (CHEM 3090) 3:3:0 On Sufficient Demand
- Prerequisite(s): MATH 1220, CHEM 2320
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.

Advanced Inorganic Chemistry (CHEM 3100) 4:4:0 Sp
- Prerequisite(s): CHEM 3000 recommended (may be taken as a corequisite)
Reviews major trends across the periodic table. Surveys basic structure, bonding, and oxidation states of the elements. Introduces inorganic stereochemistry including coordination compounds.

Physical and Inorganic Chemistry Laboratory (CHEM 3115) 1:0:4 Sp
- Prerequisite(s): CHEM 3000, CHEM 3060
- 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.

Chemistry Literature (CHEM 3200) 1:0:2 F
- Prerequisite(s): CHEM 2320
- Corequisite(s):CHEM 3000
Introduces how to use the most common set of chemical information sources and concepts. Explores tools used in gathering chemical information, including, but not limited to, printed tools, commercial databases, and Internet resources.

Biological Chemistry (CHEM 3600) (Cross-listed with: BIOL 3600) 3:3:0 F, Sp
- Prerequisite(s): CHEM 2320

Biological Chemistry Laboratory (CHEM 3605) (Cross-listed with: BIOL 3605) 1:0:4 Sp
- 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.

Biological Chemistry II (CHEM 3620) 3:3:0 Sp
- Prerequisite(s):CHEM 3600 or BIOL 3600
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.

Forensic Analytical Chemistry (CHEM 3700) 3:3:0 Sp
- Prerequisite(s): CHEM 3000, CHEM 2320
- 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.

Energy Use on Earth (CHEM 3800) (Cross-listed with: ENVT 3800, PHYS 3800) 3:3:0 F
- Prerequisite(s): (PHYS 1010 or PHSC 1000 or CHEM 1010 or GEO 1010 or GEO 2040 or METO
Course Descriptions

CHEM 4000 Instrumental Analysis 2:2:0 Sp
  • Prerequisite(s): CHEM 3000, CHEM 3070
  • 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 Sp
  • Prerequisite(s): CHEM 3000, CHEM 2325
  • Corequisite(s): CHEM 4000
Experiments in selected areas of instrumental methods of analysis. Covers both qualitative and quantitative methods of analysis. Includes introductory laboratory exercises and laboratories using advanced sample preparation and instrumental analysis techniques. Involves the independent creation and implementation of advanced laboratory exercises.

CHEM 4030 Radiochemistry 3:3:0 On Sufficient Demand
  • Prerequisite(s): CHEM 1215, MATH 1220
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: BIOL 4200, GEO 4200) Teaching Methods in Science 3:3:0 F, Sp
  • Prerequisite(s): Acceptance into secondary education program; senior-level 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 425R Chemistry for Teachers 1 to 5:1 to 5:0 to 10 Su
  • Prerequisite(s): Departmental Approval
For licensed teachers or teachers seeking to recertify. An update course in chemistry and/or a basic chemistry course for the chemistry endorsement from the Utah State Office of Education. Teaches principles of chemistry and pedagogy of teaching chemistry 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.

CHEM 4800 Pharmacology 3:3:0 Sp
  • Prerequisite(s): CHEM 3600 or BIOL 3600
Explores the science behind pharmacological 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 Su, F, Sp
  • Prerequisite(s): CHEM 2320 and CHEM 3200 and a minimum GPA of 3.0; and Departmental approval of the internship proposal.
Provides supervised, practical, and research experience for students preparing for careers in chemistry. May be repeated for a maximum of twelve credit hours as per school standards.

CHEM 489R Undergraduate Research in Chemistry 1 to 3:0:3 to 9 Su, F, Sp
  • Prerequisite(s): CHEM 2320 and CHEM 3200 and departmental approval
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 490R Chemistry Seminar 0.5: 0.5:0 F, Sp
  • Prerequisite(s): CHEM 2320
Exposes students to current research topics in Chemistry and related fields. Provides an opportunity for students to attend weekly lectures presented by department faculty and invited speakers. These lectures are presented at a level appropriate for junior and senior chemistry majors. May be repeated for a maximum of 2 credits toward graduation.

CHEM 491R Advanced Topics in Inorganic Chemistry 3:3:0 On Sufficient Demand
  • Prerequisite(s): CHEM 1220 and instructor’s permission. 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 nine credits.

CHEM 495R Advanced Topics in Organic Chemistry 3:3:0 On Sufficient Demand
  • Prerequisite(s): CHEM 2310, CHEM 2320, Instructor approval
For students majoring in Chemistry. Varies from semester to semester. May be repeated for a maximum of nine credits. Topics include organic synthesis, reaction mechanisms, and identification of organic compounds.

CHEM 499R Independent Study and Research 1 to 4:0:3 to 12 Su, F, Sp
  • Prerequisite(s): CHEM 3200 and Instructor approval
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 four credits.

CHIN 1010 Beginning Chinese I 4:4:1 F
  • Prerequisite(s): Students need equivalent knowledge of CHIN 1010
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.

CHIN 1020 Beginning Chinese II 4:4:1 Sp
  • 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.

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 F
  • 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 digitool weave (mixture of English and Chinese) and character-romanization mix to ease learning of characters.

CHIN 202G Intermediate Chinese II 4:4:0 Sp
  • 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 digitool weave (mixture of English and Chinese) and character-romanization mix to ease learning of characters.
CHIN 3050  
Advanced Chinese  
3:3:1  F  
- Prerequisite(s): CHIN 2020, one year residency in a Chinese-speaking country, or instructor approval  
Examines Chinese history and culture through reading and analysis of authentic materials. Addresses idioms and their origins. Requires reading of 2,000-3,000 characters in Mandarin Chinese.

CINE—CINEMA STUDIES

CINE 2150  
(Cross-listed with: ENGL 2150)  
Critical Introduction to Cinema Studies  
3:2:3  
- 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. Involves discussion, lecture, film screenings, papers, and tests.

CINE 217G  
(Cross-listed with: ENGL 217G, COMM 217G)  
Race Class and Gender in US Cinema  
3:2:2  
- 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.

CINE 3150  
(Cross-listed with: ENGL 3150, COMM 3150)  
Film Theory  
3:3:0  
- Prerequisite(s): CINE 2150 or ENGL 2150  
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.

CINE 416R  
(Cross-listed with: ENGL 416R, THEA 416R)  
Special Topics in Film Studies  
3:3:0  
- Prerequisite(s): ENGL 2150 or CINE 2150 or THEA 1023  
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.

CJ—CRIMINAL JUSTICE

CJ 1010  
Introduction to Criminal Justice  
3:3:0  F, Sp, Su  
Prerequisite(s): 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  
POST Module II  
11:1:0  Sp  
- 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  
Terrorism  
3:3:0  F, Sp  
- Prerequisite(s): CJ 1010  
Examines external and internal plant security measures; confidential personnel investigations and interview procedures. Studies principle and major concepts in prevention, protection, loss control and crime prevention in the commercial sector.

CJ 2120  
Corrections  
3:3:0  F, Sp, Su  
- Prerequisite(s): CJ 1010  
Examines the correctional system; includes prison systems, the elements of specific offenses, and the roles of the parolee in the fact-gathering process.

CJ 2160  
Juvenile Justice  
3:3:0  F, Sp  
- 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.

CJ 2350  
Terrorism  
3:3:0  F, Sp, Su  
- Prerequisite(s): CJ 1330  

CJ 281R  
Internship  
1 to 8:0:5 to 40  
- 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.
Course Descriptions

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 3:0 to 3:0 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
- Prerequisite(s): ENGL 2010 or ENGL 2020 and CJ 1010
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.

CJ 3040
Community Policing
3:3:0
- Prerequisite(s): CJ 1010 and ENGL 2010 or ENGL 2020
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
- Prerequisite(s): CJ 1300 and ENGL 2010 or ENGL 2020
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
- Prerequisite(s): CJ 1010, ENGL 2010 or ENGL 2020
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
- Prerequisite(s): CJ 1300, ENGL 2010 or ENGL 2020
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
- Prerequisite(s): CJ 1330, ENGL 2010 or ENGL 2020
Studies the definition of crime and the difficulties inherent in crime prevention and control. Develops methods to overcome stereotypes, biases and preconceptions.

CJ 3300
Victimology
3:3:0
- Prerequisite(s): CJ 1340 and ENGL 2010 or ENGL 2020
Presents historic treatment and emerging roles of the crime victim in the criminal justice process. Investigates problems and dilemmas faced by crime victims and victimization risk factors. Studies systemic and societal creation of victims, relationships between victims and offenders, crime victim compensation and reparations.

CJ 3310
White Collar Crime
3:3:0
- Prerequisite(s): CJ 3270
Discusses the implications of white-collar crime for criminal justice professionals and researchers. Examines various forms of white-collar crime using case studies and estimates the extent as well as the costs of these crimes. Focuses on victim and offender profiles and legal issues, including questions of corporate liability. Examines theoretical explanations for white-collar crime committed by individual offenders and corporations.

CJ 3320
Crime and Gender
3:3:0
- Prerequisite(s): CJ 1010
Involves an in-depth approach to the study of women in the criminal justice system from both a theoretical and practical perspective. Covers three main areas: 1) women as offenders; 2) women as victims; and 3) women as criminal justice practitioners.

CJ 3360
Prisons--Contemporary Issues and Dilemmas
3:3:0
- Prerequisite(s): CJ 1010, ENGL 2010 or ENGL 2020
Studies the troubled history of the corrections system. Targets current problems and explores possible solutions to those problems.

CJ 3390
Traffic Theory
3:3:0
- Prerequisite(s): CJ 3040 and (ENGL 2010 or ENGL 2020)
Studies the role of law enforcement in highway safety. Discusses the background of highway safety. Teaches how to enforce, through administration, highway-related law enforcement issues and problems.

CJ 3400
Drugs and Crime
3:3:0
- Prerequisite(s): CJ 1010 and ENGL 2010 or ENGL 2020
Presents historic, economic, and political roles of illegal drugs, their production and distribution systems. Investigates the impact that drug use has on crime, accidents, and criminal justice. Studies global, national, and local strategies to curtail drug distribution.

CJ 4060
Special Problems in Criminal Justice
3:3:0
- Prerequisite(s): Acceptance into the Criminal Justice Bachelor Degree Program and Senior 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 Rights and Responsibilities
3:3:0
- Prerequisite(s): CJ 2350, ENGL 2010 or ENGL 2020
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
- Prerequisite(s): CJ 2350, ENGL 2010 or ENGL 2020
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
1:1:0
- Prerequisite(s): Advanced standing in the BS Criminal Justice program
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 4700
Comparative Criminal Justice Systems
3:3:0
- Prerequisite(s): CJ 2350, ENGL 2010 or ENGL 2020
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
- Prerequisite(s): CJ 2350 and ENGL 2010 or ENGL 2020
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  Su, F, Sp
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.

CJ 487R
Criminal Justice Field Experience
1 to 6:1 to 5:3 to 15  On Sufficient Demand
Prerequisite(s): Junior or Senior status required
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 six hours of credit.

CJ 4880
Qualitative Research Methods in Criminal Justice
3:3:0  F, Sp
Prerequisite(s): Senior Standing in Criminal Justice Bachelor's Degree Program
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  On Sufficient Demand
Prerequisite(s): Junior or Senior status required
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 nine credits.

CJ 4990
Criminal Justice Senior Seminar
3:3:0  F, Sp
Prerequisite(s): Senior Standing in Criminal Justice Bachelor’s Degree Program
Explores selected issues and dilemmas surrounding the criminal justice field. Develops oral and written communication skills. Includes guest speakers, research, and resume writing.

CLSS—College Success Studies

CLSS 1000
University Student Success
3:3:0  Su, F, Sp
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.

CLSS 1010
Student Success Topics
1 to 2:1 to 2:0  Not 11-12
- Prerequisite(s): Appropriate reading skills
Variable credit course that surveys essential skills for success in college. Topics covered include: memory, note taking, test taking, textbook reading and study strategies, time management, writing processes, and thinking skills.

CLSS 1030
Student Leadership Development I
2:1:3  F
Provides an overview of leadership styles, personal qualities, and organizational dynamics for student leaders. Explores the structure and culture of Student Leadership, Utah Valley University, the governing boards of higher education, and the State of Utah relating to shared governance and student involvement in campus leadership.

CLSS 1040
Student Leadership Development II
2:1:3  Sp
Focuses on the nature of leadership, citizenship, and advocacy in democracy. Provides an overview of leadership and civics as crucial to the success of any leader, including a student leader.

CLSS 1050
Library Research
1:1:0  Su, F, Sp
Presents in-depth library skills and research strategies. Teaches information-gathering strategies and processes. Emphasizes information access through traditional research tools and electronic resources. Covers compilation of annotated bibliographies. Successful completers should be well prepared for further intensive research and writing.

CLSS 1100
Stress Management—Hardiness
3:3:0  F, Sp
Presents strategies to develop new attitudes for coping with stressful circumstances. Increases a broader perspective and deeper understanding of acute and chronic stress. Develops conflict resolution techniques through improved communication skills. Studies physiological signs of stress and strain. Emphasizes relaxation techniques to increase performance and reduce the effects of stressful situations. Presents how diet affects personal performance and stress reduction. Explores physical fitness and the effects a sound body can have on coping with stress.

CLSS 1180
Speed Reading
2:2:0  F, Sp
- Prerequisite(s): Appropriate placement scores
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.

CLSS 1190
Power Reading Strategies
2:2:0  F, Sp
- Prerequisite(s): Appropriate placement scores
For independent learners 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. Offered only online.

CLSS 1200
The 7 Habits of Highly Effective People
3:3:0  Su, F, Sp
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.

CLSS 1300
Learning to Learn
2:2:0  Not 11-12
For students who possess basic study skills and desire advanced knowledge and techniques. Introduces the power of self motivation and concrete methods for moving beyond passive “information processing” to active classroom learning. Combines insights from philosophy, psychology, education, and studies on peak performance. Focus is on memory, thinking, creativity, concentration, and the personal dynamics of the learning process. Includes self-introspection, lecture, group interaction, and application of principles to the academic setting.

CLSS 2100
Career and Major Exploration
2:2:0  Su, F, Sp
For students seeking help in the selection of majors and careers. Assesses and clarifies interests, skills, values, and personal characteristics. Explores college majors, careers, and the world of work. Integrates knowledge of self with career options. Teaches decision-making skills to help students make well-informed career decisions and goals. Develops an action plan for graduation.

CLSS 2200
Leadership Mentoring I
3:3:0  Sp
Provides the theoretical base and hands-on training for potential UV Mentors. Examines leadership and mentoring techniques. Focuses on applying and practicing mentoring skills. Assists students in developing their own advanced learning system and explores methods for mentoring these skills. Introduces and applies important presentation skills. Includes highly interactive class discussions, group exercises, and oral presentations.
Course Descriptions

CLSS 2300
Leadership Mentoring II
2:2:0 F
For UV Mentors who will assist faculty as peer mentors in Student Success or other course pairings. Emphasizes formation of learning communities to facilitate the transition of first-year students. Focuses on developing mentoring skills to help students connect to the institution; identifies UVU institution resources, policies, and procedures; and stresses effective academic strategies. UV Mentors develop communication and leadership skills as they process and integrate classroom experiences and responsibilities, while they assist first-year students. Includes lectures, collaborative learning activities, field experiences, case studies, student presentations, journal writing and portfolios.

CLSS 240R
Leadership Mentoring Practicum
2:1:10 F, Sp
Allows UV Mentor to work with cooperating instructor to set goals and evaluate performance as a peer mentor in a UVU1000 classroom. Provides opportunities to demonstrate mentoring and presentation skills. Features organizing study groups, service learning, and student life activities. May be repeated for a maximum of 6 credits toward graduation.

CLSS 281R
Internship
1 to 8:0:5 to 40 F, Sp
- Prerequisite(s): Department Approval
- Corequisite(s): CLSS 2100 recommended
Provides supervised, practical, and professional experience for students exploring a variety of career areas. May be repeated for a maximum of eight credit hours.

CMGT—Construction Management

CMGT 1010
Introduction to Construction Management
3:3:0 F, Sp
Provides an overview of the practice of construction management including heavy civil, commercial, and residential construction. Examines the 5 M's of Construction Management-Money, Machines, Materials, Manpower and Marketing. 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
3:2:3 F, Sp
- Prerequisite(s): MAT 0950 or higher or appropriate test scores
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.

CMGT 1150
Construction Safety
2:2:0 F, Sp, Su
Introduces OSHA safety practices and its role in the construction industry. Reviews related safety theories, procedures and practices used in the construction industry.

CMGT 1160
Building Information Modeling
3:3:0 F, Sp, Su
- Prerequisite(s): DGM 1010 or equivalent
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.

CMGT 1190
Concrete and Framing Lab
3:0:9 F
Offers learning experience in concrete and framing applied construction methods.

CMGT 1220
Finishing Lab
3:0:9 Sp
- Prerequisite(s):
Provides lab experience in finishing methods and techniques.

CMGT 2010
Construction Materials and Methods II
3:2:3 F, Sp
- Prerequisite(s): MAT 0950 or higher or EGDT 1600, DGM 1010 or higher or successfully complete computer proficiency exam.
- Pre- or Corequisite(s): CMGT 1160 or EGDT 1020
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.

CMGT 3000
Principles of Construction Scheduling
3:2:2 F, Sp
- Prerequisite(s): CMGT 1010, CMGT 2010, DGM 2010
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.

CMGT 3010
Construction Materials Testing
3:2:2 F, Sp
- Prerequisite(s): CMGT 1020, MAT 1010 or higher or EGDT 1600
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.

CMGT 3020
Analysis and Design of Construction Systems
3:2:2 F, Sp
- Prerequisite(s): CMGT 1010, DGM 1010 or computer proficiency exam
Covers mechanical, electrical and plumbing (MEP) principles. Provides problem solving experience in the analysis and design of MEP practices used in both horizontal and vertical construction applications.

CMGT 3030
Principles of Construction Estimating
3:2:2 F, Sp
- Prerequisite(s): CMGT 1020, CMGT 2010, MAT 1010 or higher or EGDT 1600
- Pre- or Corequisite(s): ACC 3000 or ACC 2020 or ACC 3030, DGM 2010 or DGM 2360
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.

CMGT 3040
Construction Job Site Management
3:2:2 F, Sp
- Prerequisite(s): CMGT 2010
Covers the role and duties of job site managers of heavy civil and commercial construction projects. Includes documentation, time and cost control, job site 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.

CMGT 3060
Applied Statics and Strength of Materials
3:3:0 F
- Prerequisite(s): MATH 1060 or EGDT 1610
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.

CMGT 399R
Student Professional Organization
0.5:0.5:0 F
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 Documents
3:3:0 F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020, CMGT 1010 and Junior Standing
Prepares learners to be able to interpret and utilize appropriate construction documents 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 4500
Senior Capstone Project
3:1:4 F, Sp, Su
- Prerequisite(s): Junior Standing and Department Approval
For senior Construction Management majors. Involves execution of a construction project case simulation covering all aspects of construction management for either heavy civil or commercial
projects. Requires a written project report and oral presentation.

**CMGT 459R**  
*Current Topics in Construction*  
1 to 3:0 to 9  
On Sufficient Demand  
- Prerequisite(s): Junior Standing and Department Approval  
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 six hours toward graduation.

**CMGT 481R**  
*Internship*  
1 to 3:0  
On Sufficient Demand  
- Prerequisite(s): Approval of Construction Technologies Department Chair  
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. Three credits may be applied toward a Bachelor of Science Degree in Construction Management. Graded credit or no-credit.

**CMGT 489R**  
*Undergraduate Research in Construction*  
1 to 3:0  
On Sufficient Demand  
- Prerequisite(s): Department approval  
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  
On Sufficient Demand  
- Prerequisite(s): Approval of Construction Technologies Department Chair  
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.

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**COMM—COMMUNICATION**

**COMM 1020**  
*Public Speaking*  
3:3:0  
F, Sp  
Covers speech research, preparation, outlining, and delivery. Provides students with practical experience and evaluation.

**COMM 1050**  
*Introduction to Speech Communication*  
3:3:0  
F, Sp  
Surveys the questions, methods, and current status of knowledge in the discipline of speech communication. Explores communication theory and practice across a variety of contexts and forms, including verbal, non-verbal, interpersonal, group, organizational, and communication.

**COMM 1130**  
*Writing for the Mass Media*  
3:3:0  
F, Sp  
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  
F, Sp  
- 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 Mass Communication*  
3:3:0  
Su, F, Sp  
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*  
3:3:0  
F, Sp  
For students interested in pursuing careers 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 actual events in the field.

**COMM 2000**  
*Introduction to Communication Theory*  
3:3:0  
- Prerequisite(s): COMM 1050 and COMM 1500  
Helps students see the relationship between different theoretical positions in the field of communication focusing on both objective and interpretive approaches to communication. Provides a working knowledge of theories that explain a wide range of communication phenomena including interpersonal, group and public communication, mass communication, and cultural contexts.

**COMM 2010**  
*Mass Communication and Society*  
3:3:0  
Sp  
- Prerequisite(s): COMM 1500  
Examines relationships between mass communication and society from a variety of theoretical perspectives and social concerns.

**COMM 207G**  
*Introduction to Gender and Communication*  
3:3:0  
- Prerequisite(s): COMM 1130  
Introduces the study of gender differences and similarities in communication. Provides practical understanding and skills useful for more effective communication within and across gender boundaries. Addresses gender and communication issues across multiple cultural contexts, including issues beyond mainstream groups and United States culture.

**COMM 2100**  
*The News Editing Process*  
3:3:0  
Sp  
- 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**  
*Interpersonal Communication*  
3:3:0  
Su, F, Sp  
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.

**COMM 2120**  
*Small Group Communication and Decision Making*  
3:3:0  
Sp  
Provides an overview of the communication processes involved in small group interactions. Covers theories of leadership, decision-making, and problem-solving through group activities.

**COMM 2130**  
*Television News Writing and Reporting*  
3:1:6  
F, Sp  
- 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.

**COMM 217G**  
*Race Class and Gender in US Cinema*  
3:2:2  
- 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.
Course Descriptions

COMM 2200
Broadcast Journalism Anchoring and Producing
3:1:6 F
- 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.

COMM 2250
Principles of Advertising
3:3:0
- Prerequisite(s): COMM 1500
Introduces the basics of advertising research, strategy, creative execution, and media strategy.

COMM 2270
Argumentation
3:3:0 F, Sp
Examines the study of argument. Emphasizes reasoning, evidence, analysis, evaluation, audience analysis, and practice.

COMM 2280
Oral Interpretation
3:3:0 Sp
- 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 Su, F, Sp
- Prerequisite(s): COMM 1500
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 Su, F, Sp
- 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.

COMM 2560 (Cross-listed with: DGM 2460)
Radio Production
3:3:0 F
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 lecturers from radio stations in the community.

COMM 2790
Magazine Writing
3:3:0 F, Sp
- 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 Su, F, Sp
- 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. Repeatable for a total of 8 credit hours.

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
Media Ethics
3:3:0
- Prerequisite(s): ENGL 1010
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 3100
History of Mass Communication
3:3:0 F
- Prerequisite(s): ENGL 1010
Covers the historical development of the means, conventions, and institutions of communication. Focuses particularly on the rise of media in the United States.

COMM 3200
Communication Research Methods
3:3:0
- Prerequisite(s): COMM 1020, COMM 1050, COMM 1500, MATH 1040 or equivalent
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 3500
Theories of Communication and Culture
3:3:0 Sp
- Prerequisite(s): ENGL 1010
Covers main theoretical approaches to communication and culture. Includes transmission, ritual, symbolic interactionist, structuralist, post-structuralist, postmodern, and critical theories.

COMM 3700
Propaganda and Persuasion
3:3:0
- Prerequisite(s): COMM 1500, ENGL 1010
Examines various propaganda techniques inherent in advertising, public relations, and even 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 3:3:0
• Prerequisite(s): ENGL 2150
Surveys the history of non-fiction/documentary film from 1896 to the present. Includes study of early pioneers from Flaherty's NANNOOK OF THE NORTH to the current trend of reality television and popular documentaries. Some films screened may carry an "R" rating.

COMM 3130 The Culture of Nature and Technology 3:3:0
• Prerequisite(s): ENGL 2150 or ENGL 2020
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 3:3:0
• Prerequisite(s): ENGL 2150 or THEA 1023
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
• Not 11-12
• Prerequisite(s): CINE 2150 or ENGL 2150
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 3160 Communication and Social Behavior 3:3:0
• Prerequisite(s): COMM 2110, COMM 2120
Examines the complex relationship between human communication and the social worlds in which we live. Looks at ways behavior in roles, institutions, and culture are socially constructed through language. Examines discourses and their role in constructing social phenomena, with an emphasis on the relationships between discourse and power.

COMM 319G Intercultural Communication Encounters 3:3:0
• Prerequisite(s): COMM 2110, COMM 2120
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) Cross-Cultural Communications for International Business 3:3:0
• Prerequisite(s): ENGL 2010 or ENGL 2020 or COMM 1050
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.

COMM 3410 (Cross-listed with BESC 3410) Fundamentals of Mediation and Negotiation 3:3:0
• Prerequisite(s): COMM 1050 or PSY 1010 or SOC 1010 or SW 1010
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
• Prerequisite(s): (BESC 3410 or COMM 3410) or COMM 2110 or LEGL 3150
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 Mass Communication 3:3:0
• Prerequisite(s): COMM 1500, COMM 2010
Presents selected topics in mass communication, and will vary from semester to semester. Requires a project demonstrating competency in the specific topic. May be repeated once with different topics for a total of six credits. Topics could include: Representations of Mormons in the Mass Media; Representations of Nature and Technology in the Mass Media; and American Youth and Mass Media.

COMM 3520 Case Studies in Public Relations 3:3:0
• Prerequisite(s): COMM 1500, COMM 2300
Examines public relations strategic planning process through the analysis of case studies. Addresses issues in media relations, crisis communications, ethics, creative planning, research, and evaluation, using real-world situations and clients.

COMM 3530 Public Relations Writing 3:3:0
• Prerequisite(s): COMM 1130, COMM 1610
Develops skills in persuasive writing for institutional or individual clients. Provides a hands-on experience in learning to develop and utilize PR writing tools for a non-profit organization in Utah County.

COMM 3600 Mass Media Ethics and Law 3:3:0
• Prerequisite(s): COMM 1500
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
• Prerequisite(s): COMM 2010 or consent of instructor
Introduces theories of international communication. Covers different systems of the press in different countries. Analyzes specific case studies in international media.

COMM 3660 Investigative Reporting 3:3:0
• Prerequisite(s): COMM 1610, COMM 2100
Examines 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. For students pursuing careers in journalism.

COMM 3680 Advertising Media Planning 3:3:0
• Prerequisite(s): COMM 2300
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 3700 Free Expression in a Democratic Society 3:3:0
• Prerequisite(s): ENGL 2010 or ENGL 2020
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
• Prerequisite(s): ENGL 2010 or ENGL 2020; AMST 2000 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.
Course Descriptions

COMM 3790  
Case Studies in Journalism  
3:3:0  
Sp  
- Prerequisite(s): (COMM 1610 and COMM 2790), or (COMM 1500 and COMM 2010)  
For students interested in mass media with particular interests in careers in journalism and mass media. 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  
F  
- Prerequisite(s): COMM 1610 or COMM 1130  
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.

COMM 4110  
Interpersonal Communication Theory & Research  
3:3:0  
- Prerequisite(s): COMM 2110  
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 4120  
Group Communication  
3:3:0  
- Prerequisite(s): COMM 2120  
Extends understanding of group operation and experience through current theory and research studies. Provides experiential activity of working in class groups. Enables students to study groups in their natural environments, investigate real-world group policy, and discover the benefits of viewing groups as having stable yet permeable boundaries.

COMM 413R  
Advanced Television News Writing and Reporting  
3:2:3  
F, Sp  
- Prerequisite(s): COMM 2130  
Teaches advanced techniques and skills in television reporting and writing. Requires students to prepare news packages used in the weekly Utah Valley News newscast to be aired on cable. Repeatable for six credits toward graduation.

COMM 4170  
Contemporary Issues in Organizational Communication  
3:3:0  
- Prerequisite(s): COMM 2400  
Provides an introduction, overview, and in-depth look at the role of communication in contemporary organizations. Demonstrates the importance and challenges of communication within organizations. Emphasizes the interdependence of internal and external forms of organizational communication, the “disciplinarity” and multi-disciplinarity of organizational communication, the unity of theory and practice in organizational communication, and critical thinking in the analysis of organizational messages and discourses.

COMM 4200  
Advanced Mediation and Negotiation  
3:3:0  
- Prerequisite(s): (ENGL 2010 or 2020) and (COMM 3410 or COMM 3410 or COMM 3420 or COMM 3420)  
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 470R  
On-Air Broadcast Journalism  
3:1:6  
F, Sp  
- Prerequisite(s): COMM 2200  
For students with interests in careers in broadcast journalism. Teaches live anchoring skills, television studio control room operations, television news direction, production, studio camera operation, audio control, computer graphics, teleprompter, and tape operator duties for on-air college newscasts. May be repeated three times for a total of twelve (12) credits.

COMM 479R  
Journalism Workshop  
3:1:6  
F, Sp  
- Prerequisite(s): COMM 2790 or consent of instructor  
For student newspaper staff. Gives experience in writing, editing, and publishing. Students work on the student newspaper completing specific learning objectives related to print production such as news and feature writing, columns and editorials. May include layout, production, photography, advertising, and sales. May be repeated once for credit.

COMM 481R  
Internship  
1 to 6:0:5 to 40  
Su, F, Sp  
- Prerequisite(s): Departmental Approval  
For upper division students working toward a Bachelor of Arts or a Bachelor of Science degree in Integrated Studies with a Communication emphasis. Provides a transition from school to work where academic concepts are applied to actual practice through on-the-job experience commensurate with upper-division classroom instruction. Requires instructor approval and final report. Repeatable for a total of 8 credits.

COMM 4850  
Public Relations Campaigns  
3:3:0  
- Prerequisite(s): COMM 3520, COMM 3530, Junior or Senior Standing  
Applies PR skills, case studies, and writing analysis to create strategic public relations campaigns for a number of clients. Requires students to generate a portfolio of work for one or more clients.

COMM 4930  
Communication Capstone  
3:3:0  
Su, F, Sp  
- Prerequisite(s): Communication major and senior status  
Discusses the integration of various principles and objectives covered across the communication curriculum. Includes major thesis or project designed to reflect students’ career goals.

COMP 1000  
Computer and Information Literacy  
3:3:0  
F, Sp, Su  
- 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  
F, Sp  
Guest speakers lecture on current topics in information systems and technology. May be repeated for a maximum of two credits toward graduation.

CRT—COLLISION REPAIR TECHNOLOGY

CRT 100R  
Paint Your Own Car  
2:1:4  
Su, F, Sp  
Designed as a survey class. Discusses and demonstrates safety, sanding, masking, feather edging, priming, and refinishing of 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.

CRT 1110  
Surface Preparation  
2:2:0  
F  
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.

CRT 111L  
Surface Preparation Lab  
1:0:3  
- Corequisites(s): CRT 1110  
Provides laboratory experience for surface preparation techniques aligning with lectures from CRT 1110. Topics include finish removal, sanding techniques, undercoating materials.
CRT 1120
Nonstructural Repair
2:2:0
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.

CRT 112L
Nonstructural Repair Lab
1:0:3
Corequisites(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.

CRT 1130
Overall Refinishing and Problem Solving
2:2:0
Sp
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 refinishing products, their solid levels, coverage, and recommended refinishing 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.

CRT 113L
Overall Refinishing and Problem Solving Lab
1:0:3
Corequisites(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.

CRT 1140
Panel Replacement and Adjustment
2:2:0
F
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.

CRT 114L
Panel Replacement and Adjustment Lab
1:0:3
Corequisites(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.

CRT 1210
Blending Tinting and Detailing
2:2:0
Sp

CRT 121L
Blending Tinting and Detailing Lab
1:0:3
Corequisites(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.

CRT 1230
Welding and Cutting
2:2:0
F
Introduces gas welding and cutting followed by intense study of MIG, TIG, STRSW welding of mild, high strength, ultra high strength steels, and aluminum. 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.

CRT 123L
Welding and Cutting Lab
1:0:3
Corequisites(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.

CRT 2310
Collision Damage Reporting
2:2:0
F

CRT 231L
Collision Damage Reporting Lab
1:0:3
Corequisites(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.

CRT 2320
Structural Damage Analysis
2:2:0
F
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.

CRT 232L
Structural Damage Analysis Lab
1:0:3
Corequisites(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.

CRT 2330
Structural Repair
2:2:0
F
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.

CRT 233L
Structural Repair Lab
1:0:3
Corequisites(s): CRT 2330
Provides a laboratory experience for aligning and straightening unibody and conventional components made from high strength steel and plastics.

CRT 2340
Full and Partial Panel Replacement
2:2:0
F
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.

CRT 234L
Full and Partial Panel Replacement Lab
1:0:3
Corequisites(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.

CRT 2400
Plastic PaintLess Dent Repair
2:2:0
Sp

CRT 240L
Plastic PaintLess Dent Repair Lab
1:0:3
Corequisites(s): CRT 2400
Course Descriptions

CRT 2420  Plastic Repair  4:1.5:7  Not 11-12  
Teaches various repair methods, tools, and materials used to correctly repair plastic materials and SMC panels in modern vehicles. Includes lectures, demonstrations, and lab. Uses I-CAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

CRT 2430  Mechanical and Electrical Repair  4:1.5:7  Not 11-12  
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 I-CAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

CRT 2440  Mechanical Advanced Vehicle Systems  2:2:0  Sp  

CRT 244L  Mechanical Advanced Vehicle Systems Lab  1:0:3  
- Corequisites(s): CRT 2440  
Provides a laboratory experience for mechanical systems theory, removal, and replacement. Instructs in basic-four wheel steering, traction control, G.P.S., electronic stability control, and black box technology information systems, minor diagnosis and troubleshooting. Includes demonstrations and hands-on. Uses Advanced Tech I-CAR curriculum.

CRT 2450  Bags Brakes Steering  2:2:0  Sp  
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. Uses Advanced Tech I-CAR curriculum.

CRT 245L  Bags Brakes Steering Lab  1:0:3  
- Corequisites(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.

CRT 2510  Custom Welding  2:2:0  F  
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  
- Corequisites(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.

CRT 2520  Customizing  2:2:0  F  
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 fenching, shaving, body modifications, convertible conversions, building hood scoops, louvers, flare, and other technical customizing processes.

CRT 252L  Customizing Lab  1:0:3  
- Corequisites(s): CRT 2520  
Provides a laboratory experience for fenching, shaving, body modifications, convertible conversions, building hood scoops, louvers, flare, and other technical customizing processes.

CRT 2530  Panel Fabrication  2:2:0  F  
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, slip rolls, band saw, and nibblers. Uses specialty tools such as English wheel, power hammer, knifform, plenisher hammer, shrinkers, and stretchers. Teaches panel fabrication and hammer forming.

CRT 253L  Panel Fabrication Lab  1:0:3  
- Corequisites(s): CRT 2530  
Provides a laboratory experience for basic fabricating tools such as sheet metal brake, slip rolls, band saw, and nibblers. Uses specialty tools such as English wheel, power hammer, knifform, plenisher hammer, shrinkers, and stretchers. Teaches panel fabrication and hammer forming.

CRT 2540  Structural Body Fabrication  2:2:0  Not 11-12  
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 11-12  
- Corequisites(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 2610  Top Chopping Sectioning and Channeling  2:2:0  Sp  
- 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 261L  Top Chopping Sectioning and Channeling Lab  1:0:3  
- Corequisites(s): CRT 2610  
Provides a laboratory experience for methods of top chopping, sectioning and channeling techniques.

CRT 2620  Frames  2:2:0  Sp  
- 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. Covers exhaust systems and other alterations, front to rear.

CRT 262L  Frames Lab  1:0:3  
- Corequisites(s): CRT 2620  
Provides a laboratory experience for identifying the different types of frames and how to modify them. Teaches sub-framing, pro-streeling, narrowing of rear ends, drive shafts, and complete frame change over. Covers exhaust systems and other alterations, front to rear.

CRT 2630  Detailing and Custom Painting  2:2:0  Sp  
- Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140  
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 mult-colored changes.
Course Descriptions

**CS 263L**
Detailing and Custom Painting Lab
1:0:3
- Corequisites(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.

**CRT 2640**
Panel Fabrication of Aluminum
2:2:0
- Prerequisite(s): CRT 1110, CRT 1220, 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
- Corequisites(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.

**CRT 2650**
Automotive Interior Design
2:2:0
- Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140
Discusses automotive interior designs with emphasis on color coordination, and materials. Identifies a variety of techniques used in alteration, sewing, layout, and attachment processes.

**CRT 265L**
Automotive Interior Design Lab
1:0:3
- Corequisites(s): CRT 2650
Offers a laboratory experience for CRT 2650 lecture. Demonstrates interior design materials, color coordination, and stitching techniques. Teaches fabrication, design attachment, molding, layout and cutting.

**CRT 281R**
Cooperative Work Experience
1 to 8:0:5 to 40
- Corequisite(s): CRT 285R
Designed for Collision Repair 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. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated as desired for interest.

**CRT 285R**
Cooperative Correlated Class
1:1:0
- Corequisite(s): CRT 281R
Provides on-the-job problems and 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 the 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. May be repeated as desired for interest.

**CRT 289R**
VICA
1:1:0
- Corequisites(s): CRT 285R
Designed for Collision Repair Technology Majors. Supports and facilitates the goals and objectives of Vocational Industrial Clubs of America (VICA). VICA 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.

**CS 1030**
Foundations of Computer Science
3.0:3.0:0
- Prerequisite(s): As required by topic, contact instructor.
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.

**CS 129R**
Fundamental Topics in Computer Science
3.0:3.0:0
- 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.

**CS 1400**
Fundamentals of Programming
3.0:3.0:0
- Prerequisite(s): MAT 1010 or higher
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.

**CS 2220**
Visual Basic Programming
3.0:3.0:0
- Prerequisite(s): CS 1400

**CS 2250**
Java Programming
3.0:3.0:0
- 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.

**CS 2300**
Discrete Structures I
3.0:3.0:0
- Prerequisite(s): (CS 1400 or INFO 1200) and MATH 1050 or higher
For CNS Majors. Covers algebraic structures applied to computer programming. Includes logic, sets, relations, graphs, trees, and Boolean algebra.

**CS 2370**
C-plus-plus Programming
3.0:3.0:0
- 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.

**CS 239R**
Current Topics in Computer Science
1.0 to 3.0:1.0 to 3.0
- 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.

**CS 2420**
Introduction to Algorithms and Data Structures
3.0:3.0:0
- Prerequisite(s): CS 1410
Introduces data structures using an object-oriented programming language, and paradigm. Studies data abstraction as a design tool. Includes advanced
Course Descriptions

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.

CS 2450
Software Engineering
3.0:3.0:0
- 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

CS 2550
Internat Programming
3.0:3.0:0
- Prerequisite(s): CS 2250
Introduces programming for the Internet and how to work with various graphic formats, sound formats, animation formats, and various format combinations.

CS 2600
Fundamentals of Data Communica tions
3.0:3.0:0
- Prerequisite(s): CS 2810 (or INFO 1200 and INFO 1420), CS 1510, MATH 1210, and PHYS 2210 recommended
Presents rigorous introduction to data communications technology. Includes theory of data communications protocols; theory and design of transmission systems; transmission media and communication software. Includes lab assignments to be completed outside of lecture.

CS 279R
Current Topics in Networking
1.0 to 3.0:0.0 to 3.0:0
- 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.

CS 2810
Computer Organization and Architecture
3.0:3.0:0
- 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.

CS 281R
Internship
1.0 to 8.0:0.5 to 4.0
- 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.

CS 291R
Independent Study
1.0 to 6.0:0.0 to 6.0:0.0 to 18.0
- Prerequisite(s): Department approval
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.

CS 296R
Seminar
1.0 to 3.0:0.0 to 3.0:0.0 to 12.0
- Prerequisite(s):
Presents topics of current interest to computer science in a seminar environment. Includes invited lectures by experts in the field, or a review of a particular technology by a faculty member. A maximum of three hours may be counted towards graduation without prior written CNS Department approval.

CS 305G
Global Social and Ethical Issues in Computing
3.0:3.0:0
- Prerequisite(s): CS 1030 or CS 1400 or INFO 1120 or DGM 1110
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 judgment, (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.

CS 3060
Operating Systems Theory
3.0:3.0:0
- Prerequisite(s): CS 2420 and CS 2810
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, deadlock, 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.

CS 3200
Introduction to Computational Theory
3.0:3.0:0
- Prerequisite(s): CS 2300
Provides an introduction to the computational theory of data. Covers basic concepts of formal (programming) language definition, Turing machines, finite automata, regular expressions, grammars, context-free languages, and computability.

CS 3250
Java Software Development
3.0:3.0:0
- Prerequisite(s): CS 2420
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.

CS 3260
CsharpNET Software Development
3.0:3.0:0
- Prerequisite(s): CS 2420
Introduces the C# programming language and the .NET Framework that the programming language is within. Discusses the various data types, built-in class in namespaces, and how to develop user defined classes and namespaces. Includes programming assignments for console, GUI, and ASP.NET applications.

CS 3310
Introduction to Algorithms
3.0:3.0:0
- Prerequisite(s): CS 2300, CS 2420
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.

CS 3320
Numerical Software Development
3.0:3.0:0
- Prerequisite(s): CS 2300, CS 2420, CS 2810, MATH 1220 (MATH 2270 recommended)
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.

CS 3370
C-plus-plus Software Development
3.0:3.0:0
- Prerequisite(s): CS 2300, CS 2420
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

CS 339R Advanced Programming Language-Other
3.0:3.0:0 On Sufficient Demand
- Prerequisite(s): Varies depending on language offered
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 three (3) credits will count towards graduation; however, with prior written CNS Department approval more than three (3) credits may be counted towards graduation.

CS 3410 Human Factors in Software Engineering
3.0:3.0:0 Sp
- Prerequisite(s): CS 3220 or CS 3250 or CS 3260 or CS 3370 or INFO 2200
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.

CS 3450 Principles and Patterns of Software Design
3.0:3.0:0
- Prerequisite(s): CS 3220 or CS 3250 or CS 3260 or CS 3370
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.

CS 3520 Database Theory
3.0:3.0:0 Su, F, Sp
- Prerequisite(s): CS 2300, CS 2420
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.

CS 3540 Game Programming
3.0:3.0:0 F
- Prerequisite(s): CS 2420, CS 3370 recommended.
Introduces programming techniques for two and three dimensional graphics programming using DirectX, OpenGL, and/or similar graphics platform. Includes application of artificial intelligence concepts to game programming. Also includes use of network programming techniques for development of multiplayer games.

CS 3550 Internet Software Development
3.0:3.0:0 Su, F, Sp
- Prerequisite(s): CS 1410
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.

CS 3660 Web Server Programming in ASP
3.0:3.0:0 Sp
- Prerequisite(s): CS 3550
Teaches how to design, implement, test, and debug server side services and client side web applications using ASP.NET. Includes but is not limited to support frameworks, services, communication foundations, browser page generation, AJAX, SOAP, database interaction, and incorporation of outside internet services.

CS 3670 Network Programming
3.0:3.0:0
- Prerequisite(s): CS 3690
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.

CS 3690 Advanced Topics in Data Communications
3.0:3.0:0 F, Sp
- Prerequisite(s): CS 2300, CS 2600, ENGL 1010, MATH 1210, MATH 1220, MATH 2210 (ENGL 2010 or 2020 Recommended)
A continuation of CS 2600 Fundamentals of Data Communications, focusing on the upper half of the OSI and Internet models. Covers Internet protocols; routing theory; transport protocols; network application interfaces; presentation formatting; information theory and compression; network security and encryption; and other emerging technologies as time permits. Includes lab assignments to be completed outside of lecture.

CS 4100 Database Management System Construction
3.0:3.0:0
- Prerequisite(s): CS 3520 and (CS 3220 or CS 3250 or CS 3260)
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.

CS 4230 Software Testing and Quality Engineering
3.0:3.0:0 F
- Prerequisite(s): CS 2450 and MATH 2040
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.

CS 4260 Digital System Simulation
3.0:3.0:0 Sp
- Prerequisite(s): CS 3060, MATH 2040
Introduces simulation of the methods used to study

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CS 4470  
Artificial Intelligence  
3.0:3.0:0  F  
- Prerequisite(s): CS 3240, MATH 1220, and (CS 3220 or CS 3250 or CS 3260)  

Presents theory, organization, concepts, and principles of artificial intelligence methodologies including neural networks, expert systems, machine learning algorithms, and genetic algorithms.

CS 4480  
Digital Image Processing and Computer Vision  
3.0:3.0:0  Sp  
- Prerequisite(s): CS 2300, CS 2420, MATH 1220.  

Prepares students for creating software solutions in the multimedia market of today and into the future. Covers digital sampling of analog signals, basic image processing in the spatial domain and frequency domain, edge and line detection, photo enhancement, feature extraction, and object recognition.

CS 4490  
Compiler Construction  
3.0:3.0:0  Sp  
- Prerequisite(s): CS 4380, CS 4450  

Studies theory, analysis and design of class developed compiler. Requires completion of a program level assessment test.

CS 4500  
Advanced Topics in Database  
3.0:3.0:0  
- Prerequisite(s): CS 3520 or INFO 3410  

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.

CS 4510  
Operating Systems Design and Simulation  
3.0:3.0:0  Sp  
- Prerequisite(s): CS 4380  

Presents architecture, principles concepts, design, implementation, and simulation of modern operating systems. Studies architecture, design, and simulation of an operating system. Discusses queuing, scheduling, resource allocation, and memory management.

CS 4550  
Software Engineering III  
3.0:3.0:0  Sp  
- Prerequisite(s): CS 4400  

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.

CS 4610  
TCP/IP Internet Architecture  
3.0:3.0:0  F  
- Prerequisite(s): CS 3690  

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.

CS 4620  
Data Mining  
3.0:3.0:0  
- Prerequisite(s): CS 3520  

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.

CS 4670  
Undergraduate Research Project for Networking Specialization  
3.0:3.0:0  Sp  
- Prerequisite(s): CS 4610  

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 are encouraged. Requires completion of a program level assessment test.

CS 4690  
Distributed Internet Application Development  
3.0:3.0:0  
- Prerequisite(s): CS 3690 and (CS 3220 or CS 3250 or CS 3260 or CS 3370). CS 3670 is recommended  

Provides significant team experience building software solutions that span large heterogeneous networks (e.g., Internet, corporate VPNs). Includes heterogeneous operating systems (e.g., Windows and Linux), databases (e.g., MySql and MS SQL Server), 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.

CS 479R  
Advanced Current Topics in Computer Science  
1.0 to 3.0:0 to 3.0:0 to 12.0  On Sufficient Demand  
- Prerequisite(s): Department Approval  

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 three hours may be counted towards graduation without prior written CS Department approval.

CS 481R  
Internship  
1.0 to 8.0:0 to 5.0:0 to 40.0  Su, F, Sp  
- Prerequisite(s): CS 3240 and Instructor approval  

Provides opportunity to use work experience to add to educational background and academic experience. A maximum of three hours may be counted towards graduation without prior written CNS Department approval.

CS 489R  
Undergraduate Research Project  
2.0 to 6.2:0 to 6.0:0  On Sufficient Demand  
- Prerequisite(s): Department approval  

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 three hours may be counted towards graduation without prior written Computer Science Department approval.

CS 491R  
Independent Study  
1.0 to 6.0:0 to 6.0:0 to 18.0  On Sufficient Demand  
- Prerequisite(s): Prior written Department Chair approval  

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 three hours may be counted towards graduation without prior written Department approval.

CS 496R  
Senior Seminar  
1.0 to 3.0:0 to 3.0:0 to 12.0  On Sufficient Demand  
- Prerequisite(s):  

Presents current state-of-the-art and/or best-practice topics in a seminar format. A maximum of three (3) credits will count towards graduation.

DANC——DANCE

DANC 1010  
Dance as an Art Form  
3:3:0  Su, F, Sp  

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  F, Sp  

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
1:0:5.2  Sp
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  F, Sp
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. Successful completers should be fully prepared to participate in a 227R ballet course. May be repeated for a total of 18 credits.

DANC 1330
Studio Workshop--Creative Process in Dance
1:0:5.1.5  F, Su
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.

DANC 141R
Introduction to Modern Dance Technique and Theory
2:1:3  F, Sp
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. May be repeated for a total of four credits toward graduation.

DANC 143R
Modern Dance Technique and Theory I
3:1:6.5  F
Prerequisite(s): DANC 141R
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.

DANC 144R
Modern Dance Technique and Theory I
3:1:6.5  Sp
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.

DANC 1500
Beginning Jazz Dance
1:0:2  Su, F, Sp
Gives students experience in jazz dance including rhythms, style, and jazz techniques. Includes basic jazz terminology and practice. Emphasizes the development of rhythm, style, and technique, as well as the importance of jazz and the history of jazz music.

DANC 1510
Intermediate Jazz Dance
1:0:3  Su, F, Sp
Prerequisite(s): DANC 1500
For students who have fundamental dance skills and basic jazz techniques. Teaches intermediate jazz dance technique, style and rhythm. Increases coordination, stamina, strength and flexibility through appropriate principles of jazz training.

DANC 1520
Folk Dance I
1:0:2  Not 11-12
Presents 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 11-12
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 11-12
Teaches basic steps, styling and history of clogging. Includes dances and freestyle clogging choreography.

DANC 1550
Clogging II
1:0:5.1.5  Not 11-12
Prerequisite(s): DANC 1540 or equivalent experience
Teaches buck-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
1:0:2  F, Sp
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.

DANC 1580
Tap Dance I
1:0:2  F, Sp
Introduces basic steps and rhythms of tap dance. Reviews the history of this American theatrical dance form.

DANC 1590
Hip-hop Dance I
1:0:3  F, Sp, Su
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 1600
African Dance II
1:0:2  F, Sp, Su
Introduces African dance form.

DANC 1610
Dance Conditioning
1:0:5.2.5  Su, F, Sp
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.

DANC 1620
Polynesian Dance I
1:0:5.2
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  Su, F, Sp
For students with no prior American Social Dance experience. Teaches beginning (Bronze) level patterns of American Social Dance including Foxtrot, Swing, and others.
Course Descriptions

DANC 1710 International Ballroom Dance I 1:0:2
Su, F, Sp
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.

DANC 1720 Latin Ballroom Dance I 1:0:2
Su, F, Sp
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.

DANC 1780 Country Western Dance I 1:0:2
Not 11-12
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.

DANC 1790 Country Western Dance II 1:0:2
Not 11-12
• 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
F, Sp, Su
For students interested in pursuing a career in dance. Introduces students to the discipline of dance as an academic as well as an art form. Studies 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 221R Pointe II 1:0:3
Su, F, Sp
• Prerequisite(s): By audition only.
For dance majors and other students with an interest in the professional dance world. Emphasizes women’s pointe work. Builds strength and control necessary for further advanced study. Explores various music components necessary for development of virtuosity en pointe. Completers will have skills necessary to progress to advanced pointe class. Includes guest choreographers and teachers. May be repeated for a total of six credits toward graduation.

DANC 222R Ballet Technique and Theory II for Men 1:0:3
• Corequisite(s): DANC 227R or DANC 327R
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 Intermediate 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
F
• 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
Sp
• 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
F, Sp
• 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.

DANC 2330 Improvisation 1:0:3
Sp
• Prerequisite(s): DANC 1330
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
F
• 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
F
• Prerequisite(s): DANC 2330
• Corequisite(s): DANC 2340
Explores fundamental approach to Dance for Camera in its various forms. Includes documentary-style videos as well as the creation of dances made specifically for the screen. Explores three-dimensional movement through the two-dimensional medium of the camera. Examines how editing choices creates dance composition in video form. Discusses aesthetic and historical representations of the body through media. Covers choreography for the camera, video camera basics, elements of a video shoot, and video-editing while preparing the student for further integration of dance and technology, such as the use of video projection during live dance performance. Provides the necessary skills to professionally produce video resumes.

DANC 243R Modern Dance Technique and Theory II 3:1:6.5
F
• 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 for 9 credits toward graduation.

DANC 244R Modern Dance Technique and Theory II 3:1:6.5
Sp
• 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.

DANC 247R Repertory 1:0:3
F, Sp
• 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 2560 African Dance II
1:0:3 Sp
- 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.

DANC 265R Fundamentals of Movement
2:1:2 F
- 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 patterning. Makes application to the areas of dance, sport, theater, somatics, performance, and psychology. Includes Barteneff 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 Sp
- 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 Irmgard Barteneff. Utilizes physical performance and observation methods. Emphasizes the process of perceiving and making meaning of human movement from a variety of contexts.

DANC 2700 American Social Dance II
1:0:3 Su, F, Sp
- 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 Fox trot, Waltz, Triple Swing, Viennese Waltz, West Coast Swing, and Cha Cha. Emphasizes, on an intermediate level, correct rhythm, poise, footwork, and foot positions, dance position, and etiquette. Successful completers will have a good general knowledge of Silver level curriculum.

DANC 2710 International Ballroom Dance II
1:0:3 Su, F, Sp
- 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, Fox trot, and Viennese Waltz. Emphasizes, on an intermediate level, rhythm, poise, 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.

DANC 2720 Latin Ballroom Dance II
1:0:3 Su, F, Sp
- 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, poise, footwork, foot positions, dance position, alignment, and correct leading and following. Successful completers will develop a good general knowledge of Silver level curriculum.

DANC 276R Ballroom Dance Company Back-Up Team
1:0:3 Su, F, Sp
- 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.

DANC 281R Internship in Dance I
1 to 3:0:5.25 to 12.5 F, Sp
- 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.

DANC 3140 Dance Production and Lighting
2:1:2 Sp
Introduces essential aspects of dance production. Focuses on theory and practice of lighting for dance. Includes consideration of costume, 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 F
- Prerequisite(s): DANC 1160
Presents an in-depth approach to music with strong emphasis on its relationship to ballet. Includes concepts of rhythm, music notation, melody, harmony, texture, instrumentation, score reading, structure, compositional procedure, and music history. All elements covered emphasize their relationship to Ballet technique class, choreography, and performance.

DANC 3160 Dance Accompaniment
2:1:2 Sp
- Prerequisite(s): DANC 1160
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 F, Sp
- 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 pointe. 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.

DANC 322R Ballet Technique and Theory III for Men
1:0:3
- 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.
Course Descriptions

DANC 327R Ballet Technique III 3:1:6.5 F, Sp
- 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.

DANC 330 Modern Dance Workshop 2:1:2 F
- Prerequisite(s): DANC 2340
  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 Sp
- Prerequisite(s): DANC 2230, DANC 2340
  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 statement. Examines plot, character, and theme as part of the creative process.

DANC 3350 Choreography 2:1:2 Su, F, Sp
- Prerequisite(s): DANC 3330
  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 XF F, Sp
- Prerequisite(s): Audition required
  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 F
- Prerequisite(s): By audition
  For 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 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 for up to 9 credits total toward graduation.

DANC 342R Modern Dance Technique and Theory III 3:1:6.5 Sp
- 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 for up to 9 credits total toward graduation.

DANC 3420 Dance in the Elementary Schools Practicum 3:2:3
- Prerequisite(s): DANC 3400
  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 3450 Modern Dance Teaching Methods 3:3:0 F
- Prerequisite(s): DANC 3400
  For dance majors interested in teaching dance at the secondary and college levels. Introduces methodologies, strategies, ideologies, and philosophies of dance pedagogy based on current research and practices. Emphasizes lesson plan writing using the Utah State Secondary Dance Core Curriculum and the National Dance Standards. Integrates theory and practice through lecture, discussion, writing, and classroom teaching experiences in the college and public school settings.

DANC 346R Modern Dance Performance 2:1:3 F, Sp
- Prerequisite(s): Audition required
  Corequisite(s): DANC 141R or DANC 142R or DANC 241R or DANC 242R or DANC 341R or DANC 342R or DANC 441R or DANC 442R
  Studies modern dance technique, performance composition, and improvisation. Presents choreography in a formal setting. Includes lecture, and demonstrations for local schools and other interested groups. Audition required. Class may be repeated for a total of 12 credits toward graduation.

DANC 356G World Dance Forms 3:2:2 Sp
- Prerequisite(s): Matriculation in any Dance major
  Explores the richness and beauty of various cultures from around the world through the medium of dance. Teaches students a deeper knowledge and appreciation of various world dance, or multi-cultural dance forms, through participation in movement classes, informal performances, and dance-related cultural events in class, on campus, and in the community. Serves to deepen the student’s understanding of the profound relationship between dance and culture, and dance and human existence throughout time through readings, group discussions, interactive assignments, cultural research projects, concert attendance, writing, dancing, singing and playing music. Explores the evolution and dissemination of the various cultural dance forms studied in class.

DANC 3610 Intermediate Dance Conditioning and Injury Prevention 2:1:2 Sp
- Prerequisite(s): DANC 1610
  An intermediate course for dance majors that covers the theory and practice of core conditioning principles with specific application to dance. Regularly scheduled conditioning work outs with accompanying lectures, where recognition and appropriate responses to common dance injuries will be discussed.

DANC 3630 Dance History 3:3:0 F
- Prerequisite(s): DANC 2110, ENGL 2010 or ENGL 2020
  Introduces the art of dance in the Western tradition. Emphasizes the relationship of dance to lineage-based, ancient, medieval, Renaissance, Baroque, Classical, Romantic, and Modern cultures. Explores keystone Western dance history concepts and the work of various recognized dance scholars. Introduces students to a wide range of publications in the field. Includes lecture and movement experiences. Emphasizes skills of critical analysis, synthesis, and interpretation in writing about dance.

DANC 365R Advanced Fundamentals of Movement 2:1:2 F
- Prerequisite(s): DANC 265R and DANC 2670
  Continues and deepens the content of DANC 265R. Explores application of principles of Barterieff Fundamentals to varied movement contexts. Explores the connections between Laban Movement Analysis (LMA) elements of Body, Effort, Shape, and Space and applies the connections to developing increased ease in movement function and liveliness of expression in many movement forms. Develops increased skill and awareness in movement sensation, perception, practice, observation, analysis, prescription, and interpretation. Utilizes LMA symbology. Involves lecture, participation, observation, and written and verbal analysis. May be repeated for 4 credits toward graduation.
DANC 3670
Movement Analysis
3:3:0 Sp
- Prerequisite(s): DANC 2670 or equivalent, DANC 265R or equivalent
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, Art, 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 Sp
- Prerequisite(s): ZOOL 2320
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 3690
Motif and Labanotation I
2:2:0 Sp
- Prerequisite(s): DANC 265R and DANC 2670
Teaches Motif Writing and beginning Labanotation. Expands students’ understanding of the written symbol system of Laban Movement Analysis and deepens observation and analysis skills critical for understanding dance and varied manifestations of human movement expression. Relates Motif Writing and Labanotation to dance history and current dance choreography and performance. Includes application of Motif Writing to teaching dance technique, composition, and improvisation. Emphasizes the theory of human movement description and analysis formulated by Rudolph Laban and requires students to both write and read beginning to intermediate level notated scores. Includes lecture, discussion, observation, and participation including reading from score, written and embodied symbology assignments, teaching assignments, and completion of several creative projects.

DANC 370R
American Social Dance III
1:0:3 F, Sp
- Prerequisite(s): DANC 2700
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 International Style Waltz, Quickstep, Tango, Fox trot, and Viennese Waltz. Emphasizes, on an advanced level, correct poise, style, rhythm. Also teaches correct footwork, foot position, alignments, rise and fall, partnering, correct leading and following. First semester successful completers will have a general knowledge of Gold level curriculum. Second semester successful completers will develop a general knowledge of Gold level curriculum. Must be repeated for two credits toward graduation.

DANC 371R
International Ballroom Dance III
1:0:3 F, Sp
- Prerequisite(s): DANC 2710
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, Fox trot, 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 have a general knowledge of Gold level curriculum. Second semester successful completers will develop a general knowledge of Gold level curriculum. Must be repeated for two credits toward graduation.

DANC 372R
Latin Ballroom Dance III
1:0:3 F, Sp
- Prerequisite(s): DANC 2720
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 have 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.

DANC 3730
American Social Dance Teaching Methods
2:2:0 Sp
- Prerequisite(s): DANC 1700 or equivalent skill level, DANC 2700 or equivalent skill level
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. Completors should be able to adequately teach social dance in either a formal or informal setting.

DANC 3740
Ballroom Dance Choreography
2:1:2 Sp
- Prerequisite(s): DANC 2700, DANC 2710, DANC 2720
For dance majors in the Dancesport emphasis. 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 F
For dance majors in the Dancesport emphasis. 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 Reserve Tour Team
2:0:6
- 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.

DANC 421R
Pointe IV
1:0:3 F, Sp
- Prerequisite(s): Advanced equivalent skill level to be determined by audition
Requires individual practice. Prepares dancers for performance at a professional technical skill level. Includes guest teachers. May be repeated for a total of six credits toward graduation.

DANC 422R
Ballet Technique for Men
1:0:3
- Prerequisite(s): Intermediate/Advanced equivalent skill level to be determined by audition
- Corequisite(s): DANC 227R or DANC 327R or DANC 427R
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 F, Sp
- 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 points in-depth study of styles from classical and
Course Descriptions

contemporary repertoire. Women develop successful virtuosity en pointe. Completers will have skills necessary to perform at an advanced 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.

DANC 424R

Pas de deux
1:0:2 Sp

- 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 421R or DANC 427R or DANC 423R

For ballet 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 to 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 Ensemble
2:0:6 F, Sp

- Prerequisite(s): Advanced equivalent skill to be determined by audition.
- 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 total of 12 credits toward graduation.

DANC 4260

Ballet Pedagogy
3:2:2

- Prerequisite(s): DANC 3150

Emphasizes appropriate teaching methodologies for all levels of ballet technique, pointe and men's class. Develops interpersonal skills as they relate to classroom management. Explores the styles and teaching methodologies of all ballet schoolings/ styles to help students develop and construct effective lesson plans and curriculum. Successful completers will be prepared to teach high quality ballet technique classes in the community.

DANC 427R

Ballet Technique IV
3:1:6.5 F, Sp

- 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 16 credits toward graduation.

DANC 428R

Utah Regional Ballet Repertory
2:0:6 F, Sp

- 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 total of 12 credits toward graduation.

DANC 4350

Senior Capstone I
1:1:0 F

- Prerequisite(s): DANC 3140 and DANC 3340 or DANC 3350

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 Sp

- Prerequisite(s): DANC 4450

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 F

- Prerequisite(s): By audition

An advanced level course for focused students interested in building technical, performance, and artistic development. Explores a variety of contemporary and historical choreographic approaches. Prepares students for work in a professional modern dance company. May be repeated for a total of six credits.

DANC 446R

Contemporary Dance Ensemble
2:0:6 F, Sp

- Prerequisite(s): DANC 341R or DANC 342R 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 total of six credits.

DANC 447R

International Ballroom Dance IV
2:1:2 F

- Prerequisite(s): DANC 1710, DANC 2710, DANC 371R

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, Fox trot, and Viennese Waltz. Emphasizes, on a professional level, correct poise, style, and rhythm. Also teaches and enhances correct footwork, foot positions, alignments, rise and fall, partnering, floor craft, body flight, precedes 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
DANC 472R
Latin Ballroom Dance IV
2:1:2  F, Sp
- Prerequisite(s): DANC 1720, DANC 2720, DANC 372R
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, precedes 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 four credits toward graduation.

DANC 4740
International Ballroom Dance Teaching Methods
3:3:0  F
- Prerequisite(s): DANC 371R, DANC 3730
For Dancesport majors and other students interested in teaching International Ballroom classes. Covers technical and theoretical aspects of all basic figures in Waltz, Fox trot, Quickstep, and Tango such as footwork, amounts 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  F
- Prerequisite(s): DANC 372R, DANC 3730
For Dancesport majors and other students interested in teaching International Latin classes. 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.

DANC 476R
Ballroom Dance Company Tour Team
2:0:6  F, Sp
- Prerequisite(s): Audition
For students with advanced Ballroom Dance Team experience. Audition required. Teaches advanced technique in performance and competitive discipline. Includes choreography, performances, demonstrations, and tours, in formation team dancing, stage performance, team competition, team match, and individual competitive events. Requires individual practice. May be repeated for eight credits toward graduation.

DANC 481R
Internship in Dance II
1 to 3:0:5.25 to 12.5  F, Sp
- Prerequisite(s): Senior status in BFA in Dance or BS in Movement Studies and Departmental Approval
Provides an opportunity for upper-division students to receive college credit and work in a dance-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 6 credits toward graduation.

DANC 4880
Current Issues in Dance
3:3:0  F
- Prerequisite(s): DANC 3630 and upper-division status
Introduces students to the issues and philosophical views that have influenced dance and other art forms. Examines current trends and issues in dance. Includes lecture, discussion, readings, video, guest artists, and collaborative projects.

DANC 4920
Dance as Cultural Practice
3:3:0  Sp
- Prerequisite(s): DANC 2110 and (DANC 365R or DANC 3670)
Designed for students with an interest in dance and cultural representation. Takes a critical cultural approach to the study of dance as a means of encoding cultural values. Analyzes issues of gender, identity, religion, power, art, semiotics, and media/technology in relation to dance. Explores the effect of dance as cultural representation on society. Emphasizes critical theories of dance, representation, identity, feminism, and post-modernism. Requires student presentation of research project.

DENT 1015
Dental Hygiene I Preclinical lab
2:0:6
- 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 clinical 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.

DENT 1020
Oral Anatomy and Physiology
4:3:3  F
- 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  F
- 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.

DENT 1040
Dental Hygiene II
3:3:0  Sp
- Prerequisite(s): Acceptance into Dental Hygiene program
- Corequisite(s): DENT 1045
Provides advanced dental hygiene modalities, including oral health education, practice management, patient assessment and treatment. Emphasizes treatment planning and emergency preparedness. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 1045
Dental Hygiene II Clinical
3:0:9  F
- 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.
DENT 1050
Clinical Dental Radiography
1:1:0 Sp
- 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 co requisite radiology lab course. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 1055
Clinical Radiography Lab
1:0:3
- 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.

DENT 1060
General and Oral Pathology
3:3:0 Sp
- 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.

DENT 2020
Dental Pharmacology
3:3:0 F
- 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 Sp
- 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 F
- Prerequisite(s): Acceptance into Dental Hygiene program
- 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.

DENT 3015
Dental Hygiene III Clinical
4:0:12
- Prerequisite(s): Acceptance into Dental Hygiene program
- 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 DENT 3010, and prepares the student for clinical dental hygiene practice.

DENT 3030
Periodontology
3:3:0 F
- Prerequisite(s): Departmental permission required
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 Sp
- Prerequisite(s): Acceptance into Dental Hygiene program
- 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.

DENT 3045
Dental Hygiene IV Clinical
4:0:12
- Prerequisite(s): Acceptance into Dental Hygiene program
- 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.

DENT 3050
Dental Hygiene Seminar
1:1:0 Sp
- Prerequisite(s): Departmental permission required
Examines 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
- Prerequisite(s): Admission to the BS Dental Hygiene program
Examines current and future issues in oral public health. Examines barriers and solutions to health concerns. Teaches students the option to either implement their oral hygiene education program on site (in country) or abroad, 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.
conduct a pilot program (trial run) locally if travel is not an option.

DENT 4010
Cutting Edge Seminar
1:1:0 Sp
- Prerequisite(s): Admission to the BS Dental Hygiene
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 Sp
- Prerequisite(s): Admission to the BS Dental Hygiene
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 Sp
- Prerequisite(s): DENT 3200, DENT 3060
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.

DENT 4300
Dental Hygiene Capstone
1:1:0 Sp
- Prerequisite(s): Admission to the BS Dental Hygiene
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.

DENT 481R
Internship in Dental Hygiene
1 to 4.0:5.1:5 to 10.5 F
- Prerequisite(s): Admission to the BS Dental Hygiene
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.

DENT 489R
Undergraduate Research in Dental Hygiene
3:0:9 Sp, Su
- Prerequisite(s): Departmental Approval
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 Sp
- Prerequisite(s): Acceptance into BS in Dental Hygiene program
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 form year to year. May be repeated for a maximum of 6 credits toward graduation.

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**DGM—DIGITAL MEDIA**

DGM 1010
Basic Computer Applications
2:2:0
- Prerequisite(s): Basic keyboarding skill
Teaches basic computer concepts and applications. Covers core computer hardware components and networking concepts, basics of an operating system, fundamental operating systems commands, electronic communications, principles of the Internet and the use public and private networks as information resources in a research setting, and a Microsoft Word as a common business communication tool. Course taught through hands-on lab experience and demonstration.

DGM 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 35 wpm for Utah State Office of Education Business Education licensing.

DGM 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.

DGM 1061
Motion Picture Editing
2:1:3
Introduces interface, fundamental set of tools, techniques and operations of Final Cut Pro. Provides experience with video capture, basic editing functions, and exporting a finished project for the Web or DVD.

DGM 1062
Flash Animation
2:1:3
Introduces interface, fundamental set of tools, animation and tweening techniques and operations of Flash. Requires creation of an interactive Flash project with sound, video, and simple motion. Introduces basic scripting.

DGM 1063
Image Editing
2:1:3
Introduces students to the interface, fundamental set of tools, techniques and operations of Photoshop. Requires creation and modification of digital images.

DGM 1110
Digital Media Essentials I
4:4:0 Su, F, Sp
Beginning course designed to give students an in-depth introduction and well-grounded understanding of the digital media way 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.

DGM 1620
Survey of Animation
3:2:3
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.

DGM 183R
DGM Student Chapter
1:1:0 On Sufficient Demand
Develops insights regarding lifetime careers and advancement opportunities in the digital media industry through participation in a student organization. Promotes a spirit of fellowship and the exchange of ideas and opportunities for participation in school and community activities and may include competition in national competitive events. Designed for DGM career-oriented students and is graded credit/no credit. A maximum of four credits may be applied toward graduation.

DGM 184R
DGM Student Leadership
1:1:0 On Sufficient Demand
- Prerequisite(s): Instructor Approval
Develops leadership skills. Includes the development, organization, and direction of a DGM student organization and is designed for DGM student organization officers. Graded credit/no credit. A maximum of four credits may be applied toward graduation.

DGM 2010
Business Computer Proficiency
3:3:0 Su, F, Sp
- Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher)
Encompasses the four basic business applications, Microsoft Word, Microsoft Excel, Microsoft Access and Microsoft PowerPoint from a business
Course Descriptions

perspective. Covers intermediate level problem solving and production skills. Uses business applications in case study settings to solve problems and accomplish task. In company with prerequisite, meets/exceeds the Board of Regent's Business Core Advisory Committee's requirement, and the Business Computer Proficiency required for matriculation into college or university business schools in the state of Utah.

DGM 201A
Word Processing Applications
0.5:0.5:0.0 On Sufficient Demand
- Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher)
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.

DGM 201B
Presentations Applications
0.5:0.5:0.0 On Sufficient Demand
- Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher)
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.

DGM 201C
Spreadsheet Applications
1:1:0 On Sufficient Demand
- Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher)
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.

DGM 201D
Database Applications
1:1:0 On Sufficient Demand
- Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher)
Introduces database software. Emphasizes process of designing, modifying, and creating related tables. Includes creating forms, generating reports and labels and constructing queries.

DGM 210
Digital Motion Picture Essentials
3:3:3 Su, F, Sp
- Prerequisite(s): DGM 110 or COMM 1130
- Corequisite(s): DGM 2130 recommended
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.

DGM 2120
Web Essentials
3:3:0 F, Sp
- Prerequisite(s): DGM 1110
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. Utilizes 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.

DGM 2130
Digital Audio Essentials
3:3:3 F, Sp
- Prerequisite(s): DGM 1110
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.

DGM 2140
Electronics for Media
3:3:0
Covers connectors and cable wiring standards and soldering techniques used in this field. Emphasizes electronic equipment and circuits used with electrical safety in media. Includes basic DC/AC theory such as voltage, current, resistance, power dissipation, batteries, and magnetism. Introduces the basic construction and theory of operation of circuits used in media containing electronic components, resistors, capacitors, inductors, transformers, diodes, transistors, electron tubes, operational amplifiers, and linear ICs. Designed for Digital Media students.

DGM 2240
Interaction Design
3:3:0 F, Sp
- Prerequisite(s): DGM 1110 or CS 1400 or INFO 1200
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.

DGM 2250
Principles of Digital Design
3:3:0 F, Sp
- Prerequisite(s): DGM 1110
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.

DGM 2260
Immersive Authoring I
3:3:0 F
- Prerequisite(s): DGM 1110
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.

DGM 2270
DVD Authoring I
3:3:0 F
- Prerequisite(s): DGM 1110
Focuses on the development of DVD-Video products at the basic building block level. Participants are introduced to production workflow processes, still menu design, overlays, navigation logic and usability, encoding schemas, authoring techniques, and building and formatting DVD’s.

*Laptop Required
DGM 2300
Records and Information Management
3:3:0 F, Sp
- Prerequisite(s): DGM 1010
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.

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.

DGM 2320
Digital Photography and Compositing I
3:3:0 F, Sp
Introduces digital image acquisition and manipulation. Teaches the mechanics of the digital camera, and introduces lighting, white balance, color temperature, digital ISO and electronic image stabilization. Discusses image compositing, EXIF data analysis and archiving.

DGM 2340
Digital Output
3:3:0 Sp
- Prerequisite(s): DGM 1110 or instructor approval
Focuses on the color calibration of the digital camera, software, monitor and output devices. Also discusses substrate properties, ink density, PPI and DPI resolution. Covers qualitative digital manipulation and includes modules on archival restoration, high-end and large format work.

DGM 2350
Word Processing Applications
3:3:0 F, Sp
- Prerequisite(s): Basic keyboarding skills

DGM 2360
Spreadsheet Applications
3:3:0 F, Sp
- Prerequisite(s): MAT 0990 or equivalent business math knowledge; basic keyboarding skill
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.

DGM 2370
Database Applications
3:3:0 F, Sp
- Prerequisite(s): Basic keyboarding skill
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.

DGM 240R
Special Topics in Digital Audio
1 to 4:0 to 4:0 to 12 On Sufficient Demand
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.

DGM 2420
Studio Recording I
3:3:0 F
- Prerequisite(s): DGM 2130 and MAT 1010
Reviews basic sound principles (standing waves, studio acoustics), microphone types and techniques of use. Theory and application of mixers, signal processors, and effects. Proper construction and grounding of a recording studio. Introduces one or more digital audio workstations, and will be required to complete a mixedown of a multi-track project. Also introduces psycho-acoustics.

DGM 2440
Sound for Film and Television
3:3:0 Sp
- Prerequisite(s): DGM 2110 and 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.

DGM 2460 (Cross-listed with: COMM 2560)
Radio Production
3:3:0 F
Teaches the history of radio, and the structure of typical radio stations, from management to programming and sales, and production and promotion. Covers method 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 radio segments of the student's choosing. Includes lectures, demonstrations, and guest lecturers from radio stations in the community.

DGM 250R
Special Topics in Digital Motion Picture Production
1 to 4:0 to 4:0 to 12 On Sufficient Demand
- Prerequisite(s): DGM 2110
Designed for students interested in specific video tools and concepts currently used in digital media production. 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.

DGM 2520
Film Production Analysis
3:1:6 F
- Pre-or Corequisite(s): ENGL 1010
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 process.

DGM 2540
Cinematography I
3:1:5
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.

DGM 260R
Special Topics in 2D/3D Animation
1 to 4:0 to 4:0 to 12 On Sufficient Demand
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.

DGM 2610
Game Design I
3:2:3
- Prerequisite(s): DGM 2210; DGM 2670 or instructor approval
Explores video and computer gaming from historic, economic and production perspectives. Includes an introduction to game theory, analysis and design documentation.

DGM 2620
Principles of Animation I
4:2:6 Not 11-12
- Prerequisite(s): DGM 1620
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.

DGM 2670
Scripting for Animation and Games
3:2:3
- 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

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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.

**DGM 270R Special Topics in Internet Development 1 to 4:0 to 4:0 to 12 On Sufficient Demand**

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.

**DGM 2740 Web Design 3:3:0 F, Sp**

- Prerequisite(s): DGM 2120

Participants will learn the underlying principles that create favorable circumstances for user-centered design. Avoids the limiting assumption that all users are able to use a computer. Covers tools and techniques for creating and evaluating web experiences.

**DGM 2750 Web Languages I 3:3:0 F**

- Prerequisite(s): DGM 2120

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.

**DGM 2780 Authoring for the Internet I 3:3:0 F**

- Prerequisite(s): DGM 2120 or INFO 2450

Participants learn the fundamentals of Flash and a variety of other tools to create engaging Internet enabled experiences. Participants learn the basics of design, animation, scripting, workflow, and delivery techniques.

**DGM 281R Internship 1 to 8:0 to 4:0 to 12 Su, F, Sp**

- 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 towards graduation. Graded Credit/No-Credit.

**DGM 296R Seminar 1 to 3:1 to 3:0 to 9 On Sufficient Demand**

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 312G Digital Media for Intercultural Communication 3:3:0 F, Sp**

- Prerequisite(s): DGM 1110

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.

**DGM 3130 Digital Storyboarding 3:3:0 F, Sp**

- Prerequisite(s): 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

**DGM 320R Advanced Topics in Digital Media Design 1 to 4:0 to 4:0 to 12 On Sufficient Demand**

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 nine credits.

**DGM 3220 Digital Media Project Management 3:3:0 F, Sp**

- Prerequisite(s): DGM 1110

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.

**DGM 3260 Immersive Authoring II 3:3:0 Sp**

- Prerequisite(s): DGM 2260

Focuses on advanced application of media technologies when creating rich immersive experiences for distribution as a desktop or optically-based application that is connected to the Internet. Introduces participants to customized media elements, compression techniques, dynamic content structures and delivery mechanisms to deliver engaging New Media experiences. Laptop required.

**DGM 3280 Authoring for Digital Devices 3:3:0 Sp**

- Prerequisite(s): DGM 1110 or INFO 2450

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, entice viewers to travel to vacation getaways; and create historical documentation.

**DGM 3290 Developing Digital Media for Instruction and Training 3:3:0 F**

- Prerequisite(s): DGM 2265

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 adult learners 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.

DGM 330R
Advanced Topics in Digital Media Graphics
1 to 4:0 to 4:0 to 12
On Sufficient Demand
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 nine credits.

DGM 3320
Digital Photography and Compositing II
3:3:0
- Prerequisite(s): DGM 2320
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 as things as the web, DVD media, print, billboard, and wrap advertising media.

DGM 340R
Advanced Topics in Digital Audio
1 to 4:0 to 4:0 to 12
On Sufficient Demand
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 nine credits.

DGM 3420
Studio Recording II
3:3:0
- Prerequisite(s): DGM 2420
Reviews microphone types and techniques of use. Covers in-depth theory and application of mixers, signal processors, and effects. Addresses advanced stereo miking techniques and focuses on experience. Uses video tools to create a typical multimedia project. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits.

DGM 3460
Live Sound Reinforcement
3:3:0
- Prerequisite(s): DGM 2130
Teaches fundamental sound concepts: propagation, absorption, reflection, transmission, 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 UVU theater, music department, or public relations functions.

DGM 3480
Digital Audio Restoration
3:3:0
Teaches the use of various tools to restore, preserve, and archive audio from a variety of sources, including vinyl records, tapes, film soundtracks, etc. Addresses how to remove ambient noise (fans, AC, etc) from class film projects. Covers methods of removing impulsive noise (clicks and pops), periodic noise (hiss and buzz), and random noise (spectral subtraction of ambient noise). Includes lectures, demonstrations, and several projects to restore using no fewer than three software packages. In addition, attention will be given to the subject of audio forensics, or restoring audio for intelligence or law enforcement applications.

DGM 350R
Advanced Topics in Digital Motion Picture Production
1 to 4:0 to 4:0 to 12
On Sufficient Demand
- Prerequisite(s): DGM 2110
Includes relevant and changing topics and tools used in digital media industries. Emphasizes hands-on experience. Includes lectures, demonstrations, and several projects to restore using no fewer than three software packages. In addition, attention will be given to the subject of audio forensics, or restoring audio for intelligence or law enforcement applications.

DGM 3510
Digital Broadcasting
3:2:2
- Prerequisite(s): DGM 2110
Teaches planning, management, and execution of live video productions integrating multiple media. 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 hand-on broadcast lab where students produce and direct short productions.

DGM 3520
Digital Motion Picture Production
3:2:3
- Prerequisite(s): DGM 2110, DGM 2540, and DGM 3540
Teaches advanced digital cinema storytelling production techniques for CD-ROM, DVD, World Wide 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.

DGM 3560
Post Production
3:3:0
- Prerequisite(s): DGM 2110
Teaches the professional post production process used to complete video tape, digital cinema, and multimedia productions. Covers workflow, dialogue cutting, montage cutting, music cutting, multicamera editing, multi-layer compositing, audio mixing, special effects editing, animation editing, fine cutting and color correcting.

DGM 3570
Digital Story Telling Workshop
3:3:0
On Sufficient Demand
- Prerequisite(s): DGM 2110
A professional workshop. Teaches advanced writing for digital media and motion pictures. 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.

DGM 3580
Digital Cinema Production Workshop
3:2:3
- Prerequisite(s): DGM 2110, DGM 2540 and DGM 3540
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 editing scripts, casting, rehearsing and performing a scene, cinematography. Includes polishing concept for shooting, then shooting and editing for presentation and critique.

DGM 360R
Advanced Topics in 2D/3D Animation
1 to 4:0 to 4:0 to 12
On Sufficient Demand
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 nine credits.

DGM 3610
Game Design II
3:2:3
- Prerequisite(s): DGM 2610
Follows DGM 2610 Game Design I. Continued study of game theory, analysis, design documentation and production. Introduces gaming engines and software. A laptop computer is required for this course.

DGM 3620
Principles of Animation II
4:3:0
- Prerequisite(s): DGM 2620 and DGM 2210
Explores a continued study of animation principles and concepts from DGM 2620 including: weight, takes, and accents, anticipation action and reaction, dialogue, acting, and animal action. Emphasizes
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DGM 3630 Character Development 3:2:2 F
- Prerequisite(s): DGM 2210 or instructor approval
An in-depth study and application of 3D character development animation, and games. Requires a firm understanding of 3D modeling, basic rigging, basic texturing, and principles of animation. teaches students how to design, model, rig, and animate 3D characters following industry pipeline.

DGM 3640 Visual Effects and Compositing I 4:4:0 F
- Prerequisite(s): DGM 2110, DGM 2210
Focusses on the use of digital special effects, and compositing in 2D and 3D environments. Subjects include multi-layer effects, alteration of green screen video, creation of digital mattes, and grading. Tools may include After Effects and Houdini.

DGM 3650 3D Production Pipeline and Rendering 3:2:3 F
- Prerequisite(s): DGM 3630
Covers both the application of lighting and rendering in 3D animation and game environments. Includes technical lighting, layer based rendering, texture baking, composition, and pipeline organization.

DGM 3660 Advanced Rigging and Animation 3:2:3 Sp
- Prerequisite(s): DGM 3630
Studied the creation of rigs, and the motion of characters and objects in games and animation. Includes full character, muscle, facial, and dynamic rigs. Reinforces principles of animation, such as movement, weight, etc.

DGM 3680 Animation Project 3:3:0 Sp
- Prerequisite(s): DGM 3640 and DGM 3660
Devoted to the pre-production of a multi-semester team project for students focusing on 2D/3D animation. Includes a research phase, writing, scripting, designing, storytelling and pre-visualization for a client-driven project.

DGM 370R Advanced Topics in Internet Development 1 to 4:0 to 4:0 to 12 On Sufficient Demand
- Prerequisite(s): Instructor approval
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 nine credits.

DGM 3740 Web Content Management 3:3:0 Sp
- Prerequisite(s): DGM 2120
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.

DGM 3760 Web Languages II 3:3:0 Sp
- Prerequisite(s): DGM 2120
Pre-or Corequisite(s): DGM 1110 and DGM 1120
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.

DGM 3780 Authoring for the Internet II 3:3:0 Sp
- Prerequisite(s): DGM 2780
Participants learn advanced techniques for delivering exceptional Flash based Internet applications. Teaches advanced scripting fundamentals, how to deliver content through server-side database connectivity, and engaging the audience through highly interactive experiences.

DGM 3790 Rich Internet Application Development I 3:3:0 Sp
- Prerequisite(s): DGM 2760
Instructs students on 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.

DGM 3820 Presentation Applications 3:3:0 F, Sp
- Prerequisite(s): DGM 1110 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.

DGM 3850 Desktop Publishing Skills 3:3:0 F, Sp
- Prerequisite(s): DGM 1110 or instructor approval
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.

DGM 3870 Graphic Applications 3:3:0 F
- Prerequisite(s): DGM 1110 or DGM 1063 (recommended)
Explores intermediate to advanced digital image editing using Adobe Photoshop. Provides an overview of image optimization processes for the web.

DGM 4010 Writing for Digital Media 3:3:0 F
- Prerequisite(s): DGM 1110, ENGL 2010 or ENGL 2020
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 4100 CPS/CAP Review--Office Systems and Technology 2:2:0 On Sufficient Demand
- Prerequisite(s): Instructor approval
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.

DGM 4110 CPS/CAP Review--Office Administration 2:2:0 On Sufficient Demand
- Prerequisite(s): Instructor approval
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.

DGM 4120 CPS/CAP Review--Management 2:2:0 On Sufficient Demand
- Prerequisite(s): Instructor approval
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.

DGM 4130 CAP--Advanced Organizational Management 2:2:0 On Sufficient Demand
- Prerequisite(s): Instructor approval
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.
DGM 4310  
Senior Projects I  
3:1:6  
F  
Prerequisite(s): DGM 3220  
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 teamwork.

DGM 4330  
Corporate Issues in Digital Media  
3:3:0  
F  
Prerequisite(s): DGM 1110 and DGM 312G  
Covers business and legal issues in multimedia. Reviews good business practices for the multimedia industry. Studies 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.

DGM 4350  
Information Workflow Management  
3:3:0  
F  
Prerequisite(s): DGM 2360, DGM 2370, and DGM 3850 or approval of instructor  
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.

DGM 4410  
Senior Projects II  
3:1:6  
Sp  
Prerequisite(s): DGM 4310  
Completion 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.

DGM 4420  
Applied Digital Media Technology  
3:3:0  
On Sufficient Demand  
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.

DGM 4610  
Designing Technology-based Training  
3:3:0  
On Sufficient Demand  
Prerequisite(s): DGM 3290  
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.

DGM 4620  
Producing Technology-based Training  
3:3:0  
On Sufficient Demand  
Prerequisite(s): DGM 4610  
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.

DGM 4640  
Visual Effects and Compositing II  
3:2:3  
Prerequisite(s): DGM 3640  
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.

DGM 4790  
Rich Internet Application Development II  
3:3:0  
Prerequisite(s): DGM 3790  
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.

DGM 481R  
Internship  
1 to 8:0:5 to 40  
Su, F, Sp  
Prerequisite(s): Departmental Approval  
Student must be in last 2 years of program, having completed all lower level DGM course requirements. 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. Graded credit/no-credit.

DGM 496R  
Information Management Seminar  
1 to 3:1 to 3:0 to 6  
On Sufficient Demand  
Prerequisite(s): Instructor/department chair approval  
Provides short courses, workshops, and special programs in information management or current business topics. Repeatable for up to six credits.

DGM 497R  
Independent Study  
1 to 3:0 to 3:0 to 9  
Su, F, Sp  
Prerequisite(s): Department chair approval  
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 six credits toward graduation.

DMT—DIESEL MECHANICS TECHNOLOGY

DMT 1010  
Diesel Apprentice Electrical 1A  
5:5:0  
On Sufficient Demand  
Studies PC computers for managing shop information, work orders and reports. Uses word processing, data management and typical shop management software. Teaches theory of operation and troubleshooting/repair skills in automotive electrical systems using state-of-the art testing equipment. Includes safety and environmental awareness.

DMT 1020  
Diesel Apprentice Engine Overhaul 1B  
5:5:0  
On Sufficient Demand  
Covers basic operating principles and technical information. Focuses on engine rebuilding nomenclature, precision measuring, cooling systems, lubricating systems, induction and exhaust systems. Provides theory and lab experiences on diesel engines.

DMT 1030  
Diesel Apprentice Governor Systems 2A  
3:3:5:0  
On Sufficient Demand  
Prerequisite(s): DMT 1020  
For second semester advanced Diesel Technology students and other interested community members. Provides theory with heavy duty on and off road diesel fuel systems. Covers tune-up procedures, fuels, proper engine oils, overview of mechanical governors, testing and adjusting. Includes dynamometer operations, maintenance procedures, and emission controls. Emphasizes ethics, safety, and electrical review.

DMT 1040  
Diesel Apprentice Engine Controls 2B  
3:3:5:0  
On Sufficient Demand  
Prerequisite(s): DMT 1030  
For second semester Diesel Technology students and other interested community members. Provides theory with mechanical and electronic engine controls on heavy duty diesel engine systems. Covers tune-up procedures, electronic fuel control and governor system for Detroit Diesel, Cummins and Caterpillar engines. Emphasizes testing, adjusting, maintenance procedures, emission
controls, work ethics and safety.

**DMT 1050**
**Diesel Apprentice Engine Diagnostics and Air Conditioning 2C**
3.5:3.5:0  On Sufficient Demand
- **Prerequisite(s):** DMT 1040
  For second semester Diesel Technology students and other interested community members. Provides theory with on and off road heavy duty systems including computerized engine diagnostics and air conditioning. Covers tune-up procedures, electronic HUEI, Bosch distributor and inline fuel system. Includes testing, adjusting, maintenance procedures, air-conditioning and heating. Emphasizes work ethics and safety.

**DMT 1060**
**Diesel Apprentice Fluid Power 3A**
5:5:0  On Sufficient Demand
Provides instruction in theory and application of fluid power (hydraulics) as used in modern mobile equipment. Includes practical theory related to the operation and repair of hydraulic and pneumatic components, and hydraulic systems. Emphasizes testing, troubleshooting, design and use of hydraulic schematics, and electric over hydraulic systems.

**DMT 1070**
**Diesel Apprentice Power Transmission 3B**
5:5:0  On Sufficient Demand
- **Prerequisite(s):** DMT 1060
  Provides instruction on theory and operation of torque converters, powershift and automatic transmissions, electronic control systems for transmissions, and service of hydraulic brake systems. Emphasizes troubleshooting, repair procedures, the use of service manuals and schematics.

**DMT 1080**
**Diesel Apprentice Chassis 4A**
5:5:0  On Sufficient Demand
- **Prerequisite(s):** DMT 1020
  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.

**DMT 1090**
**Diesel Apprentice Power Trains 4B**
5:5:0  On Sufficient Demand
- **Prerequisite(s):** DMT 1020
  Provides theory of 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.

**DMT 1110**
**Diesel Engine Overhaul**
4:4:0  F, Sp
- **Prerequisite(s):** Minimum ACT Reading score of 16 or Accuplacer reading 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.

**DMT 111L**
**Diesel Engine Overhaul Lab**
2:0:6
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.

**DMT 1120**
**Diesel Engine Operation/Tune Up**
4:4:0  F, Sp
- **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 preparations, 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.

**DMT 112L**
**Diesel Engine Operation/Tune-up Lab**
2:0:6
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.

**DMT 1400**
**Industrial Maintenance 1A**
5:5:0  On Sufficient Demand
- **Prerequisite(s):** Departmental written approval
  A general maintenance course for Industrial Maintenance apprentices. Teaches environment protection systems fundamentals, safety and emergency procedures.

**DMT 1410**
**Industrial Maintenance 1B**
5:5:0  On Sufficient Demand
- **Prerequisite(s):** Departmental written approval
  A power transmission course for Industrial Maintenance apprentices. Teaches 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.

**DMT 1420**
**Electrical Systems Theory**
4:4:0  F, Sp
- **Prerequisite(s):** AUT 1260 (or any MAT or MATH course 1000 or higher) with a C- or better
- **Corequisite(s):** DMT 1510 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.

**DMT 1430**
**Electrical Systems Lab**
2:0:6
- **Prerequisite(s):** AUT 1260 (or any MAT or MATH course 1000 or higher) with a C- or better
- **Pre- or Corequisite(s):** DMT 1510
  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.

**DMT 1440**
**Engine Electronics and Diagnostics Theory**
4:4:0  F, Sp
- **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 heavy duty chassis systems including computerized engine diagnostics and air conditioning. Covers tune-up procedures, electronic HUEI, Bosch distributor and inline fuel system. Includes testing, adjusting, maintenance procedures, air-conditioning and heating. Offers the opportunity to study component replacement, tune-up preparations, 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.

**DMT 1450**
**Industrial Maintenance 3B**
5:5:0  On Sufficient Demand
- **Prerequisite(s):** Departmental written approval
  An electrohydraulics and pneumatics course for Industrial Maintenance apprentices. Teaches pumps, circuits, and symbols (I.S.O.), troubleshooting, industrial systems including hydraulics, basic pneumatics, circuits and components, and pressure vessel code. Covers troubleshooting of compressors, aftercoolers, dryers, oils, valves, filters, separators, pneumatic or nitrogen operated system controls, machinery lube systems and steam systems.

**DMT 1460**
**Engine Electronics and Diagnostics**
2:0:6
- **Prerequisite(s):** AUT 1260 (or any MAT or MATH course 1000 or higher) with a C- or better
- **Pre- or Corequisite(s):** DMT 1520
Course Descriptions

DMT 2230 (Cross-listed with AUT 2230) Heating Ventilation Air Conditioning and Refrigeration Theory 2:2:0 Sp  
- Prerequisite(s): AUT 1160 Recommended  
- Corequisite(s): DMT 223L 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.

DMT 223L Climate Control Lab 1:0:3  
Provides hands-on opportunity to locate, identify, test, service, and troubleshoot different types of mobile AC systems using EPA approved equipment and procedures. Students will demonstrate their proficiency using recovery recycling, evacuating, and charging equipment for both R-12 and R-134A refrigerants. Also provides hands-on experience with auxiliary power units used on highway trucks.

DMT 2310 Fluid Power Theory 4:4:0 F, Sp  
- 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.

DMT 231L Fluid Power Lab 2:0:6  
- Pre- or Corequisite(s): DMT 2310  
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.

DMT 2320 Fluid Power Transmission Theory 2:2:0 F, Sp  
- 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.

DMT 232L Fluid Power Transmission Lab 1:0:3  
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 F, Sp  
- 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.

DMT 241L Chassis Lab 2:0:6  
- Pre- 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.

DMT 2420 Power Trains Theory 4:4:0 F, Sp  
- 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.

DMT 242L Power Trains Lab 2:0:6  
- Pre- 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.

DMT 281R Cooperative Work Experience 1 to 8:0:5 to 40 F, Sp  
- 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.

DMT 285R Cooperative Correlated Class 1:1:0 F, Sp  
- 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.

DMT 289R VICA 1:1:0 F, Sp  
Designed for Diesel Mechanics Technology majors. Supports and facilitates the goals and objectives of Vocational Industrial Clubs of America (VICA). VICA is a pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests.

EART 1000 Survey of Electrical Automation and Robotics Technology 2:2:0 On Sufficient Demand  
An introductory course for those interested in exploring the electrical and robotics field. Familiarizes students with the fundamentals of electricity. Includes career exploration, consumer awareness, manipulative skills, and craftsmanship.

EART 1010 Industrial Maintenance 2A 5:5:0 On Sufficient Demand  
- Prerequisite(s): Departmental written approval  
An electricity course for Industrial Maintenance apprentices. Teaches fundamentals of electricity and electrical safety, electric motor fundamentals, transformers, rectifiers and inverters. Introduces circuit breakers, wiring diagrams and electronic and computer controls.

EART 1020 Industrial Maintenance 4A 5:5:0 On Sufficient Demand  
- Prerequisite(s): Departmental written approval  
A basic computers, PLC logic and variable speed drives course for Industrial Maintenance apprentices to troubleshoot, adjust, and repair AC electric motors, motor controls, PLC controls and variable
Course Descriptions

**EART 1050** Applied Electrical Math  
5:5:0 F  
- Corequisite(s): EART 1130 and EART 1180  
Utilizes basic algebraic formulas to calculate voltage, resistance, capacitance, and power. Covers the use of trigonometry for finding volt-amperes, reactance, and watts in AC circuits. Uses phasors, graphs, and sign waves to analyze electronic circuits.

**EART 1110** Electrical Apprentice 1A  
5:5:0 F  
For electrical apprentices. Teaches the theory of and includes an introduction to electricity, basic DC theory, voltage, current, resistance, batteries, and magnetism. Covers principles, formulas and math for simple electrical circuits, series, parallel, combination circuits, and power problems.

**EART 1120** Electrical Apprentice 1B  
5:5:0 Sp  
- Prerequisite(s): EART 1110 or departmental written approval  
For electrical apprentices. Introduces measuring instruments, magnetism, circuits, devices, National Electrical Code, blueprint reading, DC motors, low voltage circuits, DC motor control, DC generators, and 4 way switches, and conduit bending.

**EART 1130** Basic Electrical  
4:4:0 F  
- Corequisite(s): EART 1050 and EART 1180  
Covers basic DC and AC theory involving voltage, current, resistance, batteries, magnetism, reactance, 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...

**EART 1180** Basic Electrical Lab  
5:0:15 F  
- Corequisite(s): EART 1130 and 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. Omoh’s Law, series/parallel circuits, combination circuits, capacitors, inductors, resistors, and L.C.R. circuits. Includes safety procedure, basic electrical tools, and electrical symbols.

**EART 1210** Electrical Apprentice 2A  
5:5:0 F  
- Prerequisite(s): EART 1120 or departmental written approval  
For electrical apprentices. Teaches application of AC theory as it applies to industrial applications in the electrical field. Covers the basic construction and theory of inductance, capacitance, and resistors dealing with L.C.R. circuits as they are used in the electrical field. Covers the mathematics used to solve problems in series and parallel circuits made up of transformers, inductance, capacitance, and resistors. Emphasizes the use of a calculator in solving problems pertaining to the right triangle, as it describes the current-voltage relationship in series and parallel circuits made up of inductors, capacitors, and resistors. Includes hands-on experiences in correcting power factor in motors, comparing true power, apparent power and reactive power in inductor, capacitors and resistors.

**EART 1220** Electrical Apprentice 2B  
5:5:0 Sp  
- Prerequisite(s): EART 1210 or departmental written approval  
For electrical apprentices. Covers installation, troubleshooting, preventive maintenance and repair of AC motors, motor control, and transformers. Teaches proper use of tools and test equipment needed in maintaining AC motors, motor control, and transformers. Includes hands-on experiences on AC motors, motor control, and transformers.

**EART 1250** Electrical Wiring and Code  
2:1:3 Sp  
- 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.

**EART 1260** Logic  
2:1:3 Sp  
- Prerequisite(s): EART 1130, EART 1050, and EART 1180; or departmental approval  
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.

**EART 1280** DC and AC Machines  
5:5:0 Sp  
- Prerequisite(s): EART 1130, EART 1050, and EART 1180; or departmental approval  
Covers installation, controls, 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.

**EART 1285** DC and AC Machines Lab  
4:0:12 Sp  
- 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.

**EART 1300** Electrical Union Apprentice 1A  
5:5:0 Not 11-12  
- Prerequisite(s): Departmental Written Approval  
For electrical union apprentices. Teaches installation and use of fastening devices, hoisting loads, wire connectors, fabricating and installation of conduit. Covers principles, formulas and math, safety, history of IBEW/NEC’s structure, and tools of the trade. Introduces resistance in a DC series circuit.

**EART 1310** Electrical Union Apprentice 1B  
5:5:0 Not 11-12  
- Prerequisite(s): Departmental Written Approval  
For electrical union apprentices. Teaches voltage functions, resistance, how current reacts, current dividers, and how to calculate power in a DC parallel circuit and DC combination circuits. Covers principles of magnetism and electromagnetism, electrical generators, superposition to circuit calculations, DC theory principles and aluminum conductors. Introduces the National Electric Code, blue prints.

**EART 1320** Electrical Union Apprentice 2A  
5:5:0 Not 11-12  
- Prerequisite(s): Departmental Written Approval  
For electrical union apprentices. Teaches NEC code book skills, Local union by-laws, AC/DC theory, three phase systems, AC resistive circuits, capacitors, diodes, and rectifiers. Covers electrical test instruments, multimeters, oscilloscope, inductance, vectors, RL circuits.

**EART 1330** Electrical Union Apprentice 2B  
5:5:0 Not 11-12  
- Prerequisite(s): Departmental Written Approval  
For electrical union apprentices. Teaches LC circuits, LCR circuits, transformers, three-phase systems. Covers benders, wiring methods, conductor ampacity, branch circuits and feeders, lighting and receptacles, cable assemblies, boxes and fittings. Reviews blueprints and NEC.

**EART 2110** Semiconductors Devices  
6:4:6 F  
- Prerequisite(s): EART 1250, EART 1260, EART 1280, and EART 1285; or departmental approval  
Introduces students to semiconductor theory including practical labs. Covers the concepts of PN junctions, transistors, voltage amplifiers, diodes, and other special semiconductors.

**EART 2150** Hydraulics and Pneumatics  
3:2:3 F  
- Prerequisite(s): EART 1250, EART 1260, EART 1280, and EART 1285; or departmental approval  
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/print reading. Completers should be able to work with hydraulic and pneumatic systems.
systems in correlation with related industrial electrical applications at entry-level jobs in the electrical maintenance field. Includes lecture, demonstration, and lab work.

**EART 2160**

**Industrial Solid State Circuit**

5:3:6  
- Prerequisite(s): EART 2110 or departmental approval
- Corequisite(s): EART 2120, EART 2150, and EART 2160

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.

**EART 2250**

**Programmable Logic Controllers 1**

5:3:6  
- Prerequisite(s): EART 1280, EART 1285; or departmental approval
- Corequisite(s): EART 2110, EART 2160

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 at entry-level positions with safety and environmental awareness.

**EART 2260**

**Advanced Logic**

3:2:3  
- Prerequisite(s): EART 2110, EART 2150, and EART 2160; or departmental approval

Covers theory and industrial applications of Comparators, Decoders, Encoders, Multiplexers, Demultiplexers, Latches (SR and D), Flip Flops (SR, D, and JK), One-shots, Timers, Counters, and Shift Registers. Includes lecture, demonstrations, and lab projects with hands-on experience. Emphasizes implementation and troubleshooting of logic circuits. Completers should be able to work in industry at work level positions with safety and environmental awareness.

**EART 2270**

**Programmable Logic Controllers 2**

6:4:6  
- Prerequisite(s): EART 2110, EART 2150, and EART 2160; or departmental approval

Covers the theory, implementation, and application of advanced Programmable Logic Controller instructions, functions, programming techniques, and data communications. Studies basic programming language and industrial control applications. Includes lecture, demonstration, and lab projects with hands-on experience. Completers should be able to work in industry at entry-level positions with safety and environmental awareness.

**EART 2310**

**Electrical Apprentice 3A**

5:5:0  
- Prerequisite(s): Departmental written approval

For electrical apprentices. Teaches troubleshooting, preventive maintenance and repair of AC motor controls. Covers the proper use of hand tools and test equipment used in the maintenance of AC motor controllers.

**EART 2320**

**Electrical Apprentice 3B**

5:5:0  
- Prerequisite(s): Departmental written approval

For electrical apprentices. Covers theory of operation of electronic devices used in industrial control systems. Studies test equipment and procedures used in installation maintenance, troubleshooting, and repair of electronic control circuits. Introduces basic theory and operation of instrumentation and process control equipment.

**EART 2330**

**Electrical Union Apprentice 3A**

5:5:0  
- Prerequisite(s): Departmental Written Approval

For electrical union apprentices. Teaches Kirchhoff’s laws, Thévenin’s and Norton’s theorems, diodes, single phase power supplies, transducers, transistors, switching and biasing techniques. Covers silicon controlled rectifiers (SCR), triacs and diacs,  

**EART 2340**

**Electrical Union Apprentice 3B**

5:5:0  
- Prerequisite(s): Departmental Written Approval

For electrical union apprentices. Teaches grounding, cause and effect of electrical faults, grounding components, grounding connections, grounding of electrical systems, systems and circuit grounding requirements for 1kV and over. Introduces earth testing, transformer overcurrent protection, proper applications of fuses, short circuits calculations, electrical load calculations, calculating the parameters of range loads. Review three phase transformers, WYE and DELTA connections.

**EART 2350**

**Electrical Union Apprentice 4A**

5:5:0  
- Prerequisite(s): Departmental Written Approval

For electrical union apprentices. Studies industrial motor controls for air conditioning/refrigeration systems. Introduces Cable faults, security systems, small programmable controllers. Covers programming timers and counters, data manipulation, emergency system installation requirements.

**EART 2360**

**Electrical Union Apprentice 4B**

5:5:0  
- Prerequisite(s): EART 2320 or departmental written approval

For electrical apprentices. Studies industrial motor control with particular attention to the National Electrical Code and Programmable Logic Controllers (PLC). Explores the fundamental parts of a PLC and motor control systems. Includes print reading.

**EART 2370**

**Electrical Apprentice 5A**

5:5:0  
- Prerequisite(s): Departmental Written Approval

Designed for fifth year electrical union apprentices. Teaches fire alarms, advanced technology systems, smoke detectors, fire alarm installation, maintenance, and troubleshooting. Introduces instrumentation, calibration and telephone wiring. Covers fundamentals of flow, pressure, level, temperature, control valves, pneumatics, controllers, and sexual harassment.

**EART 2380**

**Electrical Union Apprentice 5B**

5:5:0  
- Prerequisite(s): Departmental Written Approval

Designed for fifth year electrical union apprentices. Teaches fundamentals, troubleshooting and electrical controls for air conditioning/refrigeration systems. Introduces Cable faults, security systems, small programmable controllers. Covers programming timers and counters, data manipulation, emergency system installation requirements.

**EART 2410**

**Electrical Apprentice 4A**

5:5:0  
- Prerequisite(s): EART 2320 or departmental written approval

For electrical apprentices. Studies industrial motor control with particular attention to the National Electrical Code and Programmable Logic Controllers (PLC). Explores the fundamental parts of a PLC and motor control systems. Includes print reading.

**EART 2420**

**Electrical Apprentice 4B**

5:5:0  
- Prerequisite(s): EART 2410 or departmental written approval

For electrical apprentices. Reviews DC and AC theory, electrical circuits and circuit calculations, transformers, motors, and motor control circuits. Studies the calculation of single and three phase loads, service entrance size, feeder and branch circuit capacity, wire and conduit size, and voltage drops. Includes a comprehensive study of all chapters of the National Electrical Code with an emphasis placed on the preparation for taking the Utah State Journeyman Exam. Includes print reading and problem solving. Completers should be prepared to take the Utah Journeyman Exam, provided they have completed all State requirements.

**EART 2450**

**Hydraulics and Pneumatics Fundamentals**

2:2:0  
- On Sufficient Demand

This course addresses the fundamentals of hydraulic and pneumatic components and systems used in industrial applications. Focus is on pumps, motors, directional and flow control valves, cylinders, transmission, and fluids. Emphasizes maintenance, safety and environmental problems as well as troubleshooting techniques and blue print reading. Includes lectures, demonstrations and CD instructional material.

**EART 245L**

**Hydraulics and Pneumatics Fundamentals Laboratory**

1:0:3  
- On Sufficient Demand

This course addresses the fundamentals of hydraulic and pneumatic components and systems used in industrial applications. Focus is on the use of pumps, motors, directional and flow control valves, cylinders, transmission, and fluids. Emphasizes maintenance, safety and environmental problems, as well as troubleshooting.
Course Descriptions

ECFS—EDUCATION, CHILD AND FAMILY STUDIES

ECFS 281R Cooperative Work Experience 1 to 8:0:0, Su, F, Sp
• 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.

ECFS 285R Cooperative Correlated Class 1:0:0 Su, F, Sp
• 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.

ECFS 286R Directed Readings 1 to 4:0:0, Su, F, Sp
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 5:0:0, Su, F, Sp
• 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 3:0:0 Su, F, Sp
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.

ECFS 4720 Characteristics and Identification of Gifted Students 3:0:0 On Sufficient Demand
• Prerequisite(s): Permission of instructor
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 3:0:0 On Sufficient Demand
• Prerequisite(s): ECFS 4720; Permission of instructor
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 3:0:0 On Sufficient Demand
• Prerequisite(s): (EDEL 3000 or EDSC 3000) and Permission of Instructor
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 three times for credit.

ECFS 494R Special Topics in Educational Psychology 3:0:0 On Sufficient Demand
• Prerequisite(s): (EDEL 3000 or EDSC 3000) and permission of instructor
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 three times for credit.

ECON—ECONOMICS

ECON 1010 Economics as a Social Science 3:0:0 SS
Su, F, Sp
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.

ECON 2010 Microeconomics 3:0:0 SS Su, F, Sp
• 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.

ECON 2020 Macroeconomics 3:0:0 SS Su, F, Sp
• Prerequisite(s): MATH 1050
Required for all business management students. Introduces macro and microeconomics. Presents the necessary economic background to prepare students to function as citizens in business in a world economy and understand the role of economic policy in the United States. Uses lecture, class discussions, student presentations, computer simulations, and videos. Completers should have the necessary prerequisite knowledge to successfully gain admittance to upper-division university economics courses.

ECON 3030 Intermediate Macroeconomics 3:0:0 On Sufficient Demand
• Prerequisite(s): ECON 2010, ECON 2020, and MGMT 2340
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 3:0:0
• Prerequisite(s): Approval of instructor
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.

**ECON 3060 Money and Banking**
3:3:0
- Prerequisite(s): Matriculation into any Woodbury School of Business program
- 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 On Sufficient Demand
- Prerequisite(s): MGMT 2340
- 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.

**ECON 3810 Labor Economics**
3:3:0 On Sufficient Demand
- Prerequisite(s): ECON 2010
- 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.

**ECON 3820 Economic Development**
3:3:0 On Sufficient Demand
- Prerequisite(s): ECON 2010
- 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.

**ECON 3830 History of Economic Thought**
3:3:0 On Sufficient Demand
- Prerequisite(s): ECON 2010 and ECON 2020
- 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.

**ECON 4010 Advanced Microeconomics**
3:3:0
- Prerequisite(s): ECON 3010
- 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
- Prerequisite(s): ECON 3020
- 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 4100 Analysis of Financial Institutions and Markets**
3:3:0
- Prerequisite(s): ECON 3020 or ECON 3030
- 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 On Sufficient Demand
- Prerequisite(s): ECON 2010
- 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.

**ECON 4320 Mathematical Economics**
3:3:0 On Sufficient Demand
- Prerequisite(s): ECON 3340
- 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.

**ECON 4340 Econometrics Applications**
3:3:0 On Sufficient Demand
- Prerequisite(s): ECON 4320
- Provides an opportunity for economics students with mathematical and statistical skills to apply these 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.

**ECON 4500 US Economic Development and History**
3:3:0 On Sufficient Demand
- Prerequisite(s): ECON 3020
- 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.

**ECON 4960 Senior Seminar Current Economic Issues**
3:3:0 On Sufficient Demand
- Prerequisite(s): Department Chair Approval
- Provides exposure to emerging topics of current interest in economics. Topics vary each semester.

**ECON 6300 Managerial Economics**
3:3:0
- Prerequisite(s): Acceptance in the MBA program
- Applies concepts and theories, based on managerial economic to business problems. Analyzes cost theory, pricing, market structures, and forecasting.

**ECON 6330 Econometrics**
3:3:0
- 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.

**ECT—Electronic and Computer Technology**

**ECT 1010 Basic Electronics--DC/AC**
4:4:0 F
- Corequisite(s): ECT 101L; ECT 1050 or equivalent recommended
- An introductory and foundation course for Electronic and Computer Technology majors. Covers fundamental DC/AC concepts. Studies basic electrical physics, DC/AC sources, resistance, basic circuits and laws, capacitance, inductance, transformers, superposition, the sine wave, reactance, impedance, resonance, and filters. Includes lecture, demonstration, computer simulation, and video presentation.
### Course Descriptions

**ECT 101L**  
DC/AC Circuits Laboratory  
2:0:6  
- Corequisite(s): ECT 1010; ECT 1050 or equivalent recommended  
Emphasizes finding agreement between analytical and experimental results as DC/AC theory is applied in a practical laboratory environment. Studies design, analysis, and building of circuits using passive electrical devices. Includes hands-on experience with equipment and demonstration.

**ECT 1050**  
Mathematics for Electronics  
5:5:0  
- Prerequisite(s): High School Algebra II, or MAT 0990 or MAT 0905  
Covers basic mathematical principles needed for DC/AC theory and provides a mathematical base for future studies. Applies theories and laws to the components and circuits covered in ECT 1010 and ECT 101L. Includes calculator use and programming, graphics, algebra, and trigonometry concepts. Includes lecture and demonstration.

**ECT 1110**  
Active Devices and Circuits  
5:5:0  
- Prerequisite(s): ECT 1010 and ECT 1050 or equivalent  
- Corequisite(s): ECT 1120 or equivalent  
For students with DC/AC background. Covers semiconductor theory beginning with the pn junction diode. Studies the operation of semiconductors and the design and analysis of basic semiconductor circuits. Includes diode characteristics and circuits, physics of semiconductors, bi-polar and field effect transistors, basic transistor circuits and amplifiers, thyristors (SCRs), AC analysis and frequency effects in transistors and their circuits. Includes lecture, demonstration, and computer simulation.

**ECT 1120**  
Active Devices and Circuits Laboratory  
2:0:6  
- Prerequisite(s): ECT 101L  
- Corequisite(s): ECT 1110  
Provides laboratory experience for ECT 1110 students. Studies the design, analysis, and building of digital circuits. Emphasizes applying theory to practical situations in design, construction, and troubleshooting of combinational and sequential digital circuits. Includes hands-on experience with common test equipment, demonstration, and observation.

**ECT 1150**  
Digital Devices and Circuits  
3:3:0  
- Prerequisite(s): ECT 1100  
Presents the concepts of basic logic design. Studies analysis, troubleshooting, repairing, and designing of sequential digital circuits. Includes number systems, codes, Boolean algebra, truth tables, Karnaugh maps, basic logic components (gates, flip-flops, counters, registers, timers, etc.), and state machine design. Includes lecture, demonstration, and computer simulation.

**ECT 1160**  
Digital Devices and Circuits Laboratory  
2:0:6  
- Corequisite(s): ECT 1150  
Provides laboratory experience for ECT 1150 students. Studies the design, analysis, and building of digital circuits. Emphasizes applying theory to practical situations in design, construction, and troubleshooting of combinational and sequential digital circuits. Includes hands-on experience with common test equipment, demonstration, and observation.

**ECT 1170**  
Software Tools for Electronics  
2:1:3  
Introduces the computer as a problem solving tool for electronic problems. Uses basic computer hardware, DOS, word processors, spreadsheets, circuit analysis, and circuit drawing software. Emphasizes hands-on computer experience. Studies uses of the computer to write lab reports, draw schematics, solve difficult problems, and graph results.

**ECT 1180**  
Advanced Software Tools for Electronics  
3:3:0  
- Prerequisite(s): ECT 1010 or equivalent  
Course focuses on the development of electronic virtual instrumentation. Using LabVIEW students learn to use graphical programming language which uses icons instead of lines of text to create applications specific to their analytical needs. The focus is on data flow programming, where data determine execution. Application will be developed which will communicate with remote, data generating sites, via the web.

**ECT 1210**  
Analog Circuits  
3:3:0  
- Prerequisite(s): ECT 1110, ECT 1120  
Covers designing and analyzing circuits using discrete bi-polar, FET and other devices along with operational amplifiers and other linear integrated circuits in meaningful applications. Includes lecture, demonstration, and computer simulation.

**ECT 1250**  
Introduction to Calculus for Electronics  
5:5:0  
- Prerequisite(s): ECT 1050 or MATH 1050 or higher  
Designed to prepare and introduce Electronic and Computer Technology majors to calculus and its use in electronics. Applies the math learned to electronic devices and circuits. Includes a review of algebra and trigonometry and basic differential calculus concepts.

**ECT 2310**  
Microprocessor and Computer Systems  
4:4:0  
- Prerequisite(s): ECT 1150  
Studies programming in assembly language, building computer interfaces, and operating digital test equipment. Includes microprocessor hardware organization, microprocessor machine instructions, input-output peripheral equipment, memory elements, control elements, data transmittal systems, interfacing, digital test equipment, diagnostic programming, computer control of processes, robotics, etc.

**ECT 2320**  
Microprocessor and Computer Laboratory  
4:0:12  
- Prerequisite(s): ECT 1150  
- Corequisite(s): ECT 2310  
Lab work includes microprocessor hardware organization, microprocessor machine instructions, input-output peripheral equipment, memory elements, control elements, data transmittal systems, interfacing, digital test equipment, diagnostic programming, computer control of processes, robotics, etc. Emphasizes lab experiences with an industry-popular microprocessor system. Lab assignments include practical testing, evaluation and design work on digital systems. Involves programming in assembly language, building computer interfaces, and operating digital test equipment.

**ECT 2380**  
Electro-Mechanics for Electronics  
2:2:0  
- Prerequisite(s): ECT 1010  
Covers fundamental concepts enabling students to use transducers, lasers, fiber optics, sensors, motors and relays in electronic circuit applications. Emphasizes techniques of electronic and computer interface with mechanical systems.

**ECT 257R**  
Special Topics in Computer Technology  
1 to 5:0 to 5:0 to 15  
- Prerequisite(s): Consent of instructor  
Designed for students interested in specific topics in computer technology. Can be used as an elective. Will vary in its content to include relevant and changing topics in the computer field. Emphasizes hands-on experience along with lectures and demonstrations. Completers should be able to converse confidently with others about the topics covered and perform related technical tasks.

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**EDEC**—**EARLY CHILDHOOD EDUCATION**

**EDEC 1640**  
Childrens Music and Movement  
2:2:0  
For Early Childhood majors and those interested in teaching music to children in early childhood education settings. Covers childhood music, past and present, strategies for teaching music and movement. Explores music appreciation, creative and structured music and movement activities for young children. Introduces musical instruments and their use. Examines music and movement curricula and learning environments.

**EDEC 2300**  
Including Young Diverse Learners  
2:2:0  
- Prerequisite(s): PSY 1100  
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
3:2:1:5  F, Sp

- Prerequisite(s): PSY 1100

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
1:2:1:5  F, Sp

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
3:2:3  F

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
3:2:1:5  Sp

- Prerequisite(s): EDEC 2600 recommended

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.

EDEC 2640
Literacy and Literature for Early Childhood
3:3:0  F, Sp

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 2700
Early Childhood Practicum
3:0:9  F, Sp

- Prerequisite(s): EDEC 2600 with a B- or higher
- Corequisite(s): EDEC 2720
- Pre- 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.

EDEC 2720
Early Childhood Assessment
2:1:3  F, Sp

- Prerequisite(s): EDEC 2600, B- or better
- Corequisite(s): EDEC 2700


EDEC 3620
Curriculum Foundations for Preprimary
3:0:9  F, Sp

- Prerequisite(s): EDEC 2600, B- or better
- Corequisite(s): EDEC 3800


EDEC 3800
Assessment for Preprimary
1:0:5:1:5  F, Sp

- Prerequisite(s): EDEC 2600, B- or better
- Corequisite(s): EDEC 3620


EDEL—ELEMENTARY EDUCATION

EDEL 1010
Introduction to Education
2:1:5:1:5  F, Sp, Su

For students interested in careers in education. Facilitates matriculation into professional education programs. Examines the relationships of teaching, learning, motivating, and instructing in classroom settings. Includes observation in public schools to help students understand these relationships and appreciate the role of professional educators in today’s society. Requires substantial commitment of time to off-campus field experiences.

EDEL 2200
Computer Technology in Education
2:2:0  Su, F, Sp

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.

EDEL 2330
Children’s Literature
3:3:0  Su, F, Sp

- Prerequisite(s): EDEL 1010 or EDEC 2600 or permission of department chair.

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.

EDEL 3000
Educational Psychology
3:3:0  F, Sp

- Prerequisite(s): Admission to Professional Education Program or permission of department chair.

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 3050
Foundations of American Education
2:2:0  F, Sp

- Prerequisite(s): Admission to Professional Education Program or permission of department chair.

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.

EDEL 3100
Kindergarten Guidance
2:2:0  F, Sp

- Prerequisite(s): PSY 1100

Examines the social and emotional development of the kindergarten child and the teacher’s role in guiding and encouraging positive self-concept, pro-social behavior, friendships, self-regulation, empathy, communication and decision making 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. Addresses other effective guidance strategies that scaffold student self-regulation.
Course Descriptions

EDEL 3250 Instructional Media
2:2:0  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  For Elementary Education students. Covers applications of desktop computers and other instructional technologies in classroom settings.

EDEL 330G Multicultural Understanding
3:3:0  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.

EDEL 3350 Curriculum Design and Assessment
3:3:0  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  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  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  Presents philosophy, trends and necessities of a well-managed classroom. Discusses the role of management and quality instruction.

EDEL 4210 Classroom Management II
1:1:0  F, Sp
- Prerequisite(s): EDEL 4200
  For Elementary Education students. Establishes 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  F, Sp
- Prerequisite(s): EDEL 4210
  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  F, Sp
- Prerequisite(s): EDEL 4230
  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  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  Presents practical and theoretical foundations for fostering reading competence in children, kindergarten thru grade 3. Includes classroom instruction and field experience with children.

EDEL 4440 Literacy Methods II
3:3:0  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  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  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  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  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  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  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  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  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  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  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  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
2:2:0  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  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  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  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  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
  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 4700 Educational Leadership for Elementary Teachers
1:1:1  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
Course Descriptions

EDSC 4850 Secondary Curriculum Instruction and Assessment
3:0
Prerequisite(s): Admission to Professional Education Program or permission of instructor.

EDSC 4440 Content Area Reading and Writing
3:0
Prerequisite(s): Admission to the Professional Education Program or permission of instructor.

EDSC 445G Multicultural Instruction ESL
3:0
Prerequisite(s): Admission to Professional Education Program or permission of instructor.

EDSC 4500 Secondary Teaching Methods
3:0
Prerequisite(s): Acceptance to Professional Secondary Education, EDSC 3000, and EDSC 4550, and Department Chair Approval

EDSC 4550 Secondary Curriculum Instruction and Assessment
3:0
Prerequisite(s): Admission to Professional Education Program or permission of instructor.

EDSC 4450 Secondary Student Teaching--Secondary
4 to 10:0:12 to 30
Prerequisite(s): Admission to Professional Education Program. Successful completion of all professional education and content courses.

EDSC 3000 Educational Psychology
3:0
Prerequisite(s): Admission to Professional Education Program or permission from department chair.

EDSC 3250 Instructional Media
2:0
Prerequisite(s): Admission to Professional Education Program or permission of instructor.

EDSC 4200 Classroom Management I
2:2:0
Prerequisite(s): Admission to Professional Education Program.

EDSC 4250 Classroom Management II
2:2:0
Prerequisite(s): EDSC 4200, Admission to Professional Education Program and must be taken during student teaching experience.

EDSC 4200 Content Area Tutoring
2 to 6:1:0 to 25
Prerequisite(s): Department Chair Approval

EDSC 3050 Foundations of American Education
2:2:0
Prerequisite(s): Admission to Professional Education Program or permission of instructor.

EDSC 3250 Instructional Media
2:0
Prerequisite(s): Admission to Professional Education Program.

EDSC 3000 Foundations of American Education
2:2:0
Corequisite(s): EDEL 4980

EDSC 491R Independent Study
2 to 4:0 to 4:0 to 12
Prerequisite(s): Department Chair Approval

EDSC 4980 Elementary Education Capstone Seminar
1:1:0
Prerequisite(s): Admission to Professional Education Program.

EDSC 4980 Elementary Education Capstone Seminar
1:1:0
Corequisite(s): (EDEL 4880 or EDEL 4890)

EDSC 4500 Secondary Teaching Methods
3:0
Corequisite(s): EDSC 4200, Admission to Professional Education Program.

EDSC 4450 Secondary Student Teaching--Secondary
4 to 10:0:12 to 30
Corequisite(s): EDSC 4850

EDSC 4440 Content Area Reading and Writing
3:0
Corequisite(s): EDSC 4800

EDSC 445G Multicultural Instruction ESL
3:0
Corequisite(s): EDSC 4800

EDSC 4550 Secondary Curriculum Instruction and Assessment
3:0
Corequisite(s): EDSC 4800

EDSC 4450 Secondary Student Teaching--Secondary
4 to 10:0:12 to 30
Corequisite(s): EDSC 4850

EDSC 4550 Secondary Curriculum Instruction and Assessment
3:0
Corequisite(s): EDSC 4850

EDSC 4440 Content Area Reading and Writing
3:0
Corequisite(s): EDSC 4850

EDSC 4550 Secondary Curriculum Instruction and Assessment
3:0
Corequisite(s): EDSC 4550
EDSP—Special Education

EDSP 3400 Exceptional Students 2:1.5:1 F, Sp, Su
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.

EDUC—Education

EDUC 6100 Research Methodology 3:3:0 Su
• 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 Su
• 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.

EDUC 6200 Masters Project 3:3:0 F
• Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program; Or permission of the Dean
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.

EDUC 6300 Curriculum Design 3:3:0 Su
• Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program; Or permission of the Dean
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. Examines 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.

EDUC 6310 Program Assessment 3:3:0 Su
• Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program; Or permission of the Dean
Examines theoretical and practical concepts that are foundational in educational evaluation and assessment. Explains learning assessments. Focuses on assessment instruments, assessment design, appropriate use of assessment techniques and the data derived from assessments to understand student progress and instructional design to promote student learning.

EDUC 6320 Instructional Models I 3:3:0 Su
• 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 delivery. Introduces a range of instructional models, most emphasizing cognition and the processing of information. Focuses on planning and implementing instruction using several selected models.

EDUC 6330 Instructional Models II 3:3:0 Sp
• Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program; Or permission of the Dean and EDUC 6320
Builds on content from Models I course. Provides a more in-depth understanding of instructional design and delivery. Focuses on planning and implementing instruction using several selected instructional models.

EDUC 6340 English as a Second Language Methods 3:3:0 Su
• Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program; Or permission of the Dean or the instructor
Prepares 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 for English language learners (ELLs). Emphasizes oral language development, literacy and content-area instruction for teaching K-12 students.

EDUC 6350 Theories of Second Language Acquisition 3:3:0 Su
• Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program; Or permission of the Dean or the instructor
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. Identifies 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.

EDUC 6360 Multicultural Education 3:3:0 Sp
• Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program; Or permission of the Dean or the instructor
Identifies the connections between language, culture, and identity. Examines multicultural education through a focus on the historical, sociological, and philosophical foundations of education. Emphasizes the role of ethnicity in the development of the United States and its education system. Outlines multicultural Multilingual curricula with a special focus on culturally/linguistically-responsive instruction and assessment techniques.

EDUC 6370 Assessment in English as a Second Language Learners 2:3:2 F
• Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program; Or permission of the Dean or the instructor
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 tasks (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.

EDUC 6380 Literacy and Linguistics in English as a Second Language 3:3:0 Su
• Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters
### Course Descriptions

#### EDSP

#### EDUC

#### EENG

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EDUC 6910</td>
<td>Project I</td>
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<tr>
<td>1:0:3</td>
<td>Su</td>
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<tr>
<td>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</td>
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<tr>
<td>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.</td>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>EDUC 6910</td>
<td>Project II</td>
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<td>1:0:3</td>
<td>Sp</td>
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<tr>
<td>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</td>
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<tr>
<td>Provides support regarding implementation of the classroom-based applied research project. Course will be graded credit/no credit.</td>
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<th>Course Code</th>
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<tr>
<td>EDUC 693R</td>
<td>Project III</td>
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<td>1:0:3</td>
<td>Sp</td>
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<tr>
<td>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</td>
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</tr>
<tr>
<td>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.</td>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>EENG 1020</td>
<td>Computer Engineering</td>
</tr>
<tr>
<td>Problem Solving with Matlab</td>
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</tr>
<tr>
<td>1:1:0</td>
<td>F, Sp</td>
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<tr>
<td>Prerequisite(s): MATH 1060 or higher</td>
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<tr>
<td>Introduces the field of Computer Engineering through programming in the Matlab language.</td>
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<tr>
<td>Teaches the design of various components of a prototype communication system while learning about the following aspects of Matlab: scripts and function files, math functions, commands for array construction and manipulation, string expressions, logic operators, control flow, and graphics. No prior knowledge of computer engineering is assumed.</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>EENG 2210</td>
<td>Fundamentals of Electric Circuit Analysis</td>
</tr>
<tr>
<td>3:0</td>
<td>On Sufficient Demand</td>
</tr>
<tr>
<td>Prerequisite(s): MATH 1210, PHYS 2210</td>
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<tr>
<td>Corequisite(s): EENG 2215</td>
<td></td>
</tr>
<tr>
<td>Studies fundamental electric circuit analysis techniques. Develops analysis techniques using Kirchoff’s laws, Thévenin and Norton equivalents, superposition, and phasors. Covers transient and steady-state time-domain analysis, and frequency analysis.</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>EENG 2215</td>
<td>Fundamentals of Electric Circuit Analysis Lab</td>
</tr>
<tr>
<td>1:0:3</td>
<td>On Sufficient Demand</td>
</tr>
<tr>
<td>Prerequisite(s): MATH 1210, PHYS 2210</td>
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<tr>
<td>Corequisite(s): EENG 2210</td>
<td></td>
</tr>
<tr>
<td>Covers fundamental electric circuit analysis techniques. Develops analysis techniques using Kirchoff’s laws, Thévenin and Norton equivalents, superposition, and phasors. Covers transient and steady-state time-domain analysis, and frequency analysis.</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>EENG 2250</td>
<td>Circuit Theory</td>
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<td>3:0</td>
<td>F, Sp</td>
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<tr>
<td>Prerequisite(s): MATH 1210, PHYS 2210, EENG 1020</td>
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<tr>
<td>Corequisite(s): EENG 2255</td>
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<tr>
<td>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. Integrates a laboratory.</td>
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<tr>
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<tbody>
<tr>
<td>EENG 2255</td>
<td>Circuit Theory Lab</td>
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<td>1:0:2</td>
<td>F, Sp</td>
</tr>
<tr>
<td>Prerequisite(s): MATH 1210, PHYS 2210</td>
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<tr>
<td>Corequisite(s): EENG 2250</td>
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</tr>
<tr>
<td>Laboratory for EENG 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.</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>EENG 2700</td>
<td>Digital Design I</td>
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<tr>
<td>3:3:0</td>
<td>F</td>
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<tr>
<td>Prerequisite(s): MATH 1050 and (CS 2810 or PHYS 2220 or EENG 2250)</td>
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</tr>
<tr>
<td>Corequisite(s): EENG 2705</td>
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<tr>
<td>Studies the design and application of combinational and sequential logic circuits with discrete and programmable logic devices.</td>
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<tr>
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<tbody>
<tr>
<td>EENG 2705</td>
<td>Digital Design I Lab</td>
</tr>
<tr>
<td>1:0:2</td>
<td>F</td>
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<tr>
<td>Prerequisite(s): MATH 1050 and (CS 2810 or PHYS 2220 or EENG 2250)</td>
<td></td>
</tr>
<tr>
<td>Corequisite(s): EENG 2700</td>
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<tr>
<td>Designed to accompany EENG 2700. Design of digital systems with discrete and programmable logic devices. Includes the use of CAD tools for system design and verification.</td>
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<tbody>
<tr>
<td>EENG 3720</td>
<td>Interfacing to Microprocessors</td>
</tr>
<tr>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
</tr>
<tr>
<td>Prerequisite(s): MATH 1210, EENG 2700</td>
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<tr>
<td>Develops the theory and technology necessary...</td>
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</table>
for the interconnection of devices and systems to microprocessors through hardware and software interface examples and student projects. Covers implementations of buses, interrupts, controllers, and device drivers.

**EENG 3740 Digital Design II**
3:3:0
- Prerequisite(s): EENG 2700
- Covers the design and verification of digital systems. Emphasizes hierarchical design principles and the use of programmable logic devices (PLDs). Utilizes modern CAD tools and design languages (VERILOG).

**EENG 3750 Engineering Analysis**
3:3:0
- Prerequisite(s): EENG 2250
- Studies Linear systems, abstract vector spaces, matrices through eigenvalues and eigenvectors, solution of ordinary differential equations, Laplace transforms, first order systems, and complex numbers.

**EENG 3770 Signals and Systems**
3:3:0
- Prerequisite(s): EENG 3750
- 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.

**EENG 4730 Embedded Systems**
3:3:0
- Prerequisite(s): EENG 2700
- Presents the design of hardware and software required for embedded, real-time systems. Covers types of real-time systems and the hardware and software required for preemptive and non-preemptive multi-tasking, tasking scheduling algorithms, task synchronization and design of a kernel for real-time systems.

**EENG 4740 Queuing Theory**
3:3:0
- Prerequisite(s): MATH 2040, EENG 3750
- Includes computer systems network modeling using stochastic processes: queuing theory models, performance analysis, resource allocations, large-system response parameters.

**EENG 4750 Digital Signal Processing**
3:3:0
- Prerequisite(s): EENG 3770
- 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.

**EENG 4760 Electronic Systems**
3:3:0
- Prerequisite(s): EENG 2250
- Corequisite(s): EENG 4765
- Introduces semiconductor theory and the fundamentals of diode and transistor operation.

**EENG 4765 Electronics Systems Lab**
1:0:2
- Prerequisite(s): EENG 2255
- Corequisite(s): EENG 4760
- Designed to accompany EENG 4760. Electronic analog circuit design, simulation, construction, debugging and measurement of circuit performance quantities using advanced instrumentation techniques.

**EENG 4800 Computer Engineering Senior Design Project**
3:3:0
- Prerequisite(s): EENG 3740
- Senior-level, capstone project experience course for the computer engineering area of specialization in the computer science department. Emphasizes major hardware and software design project identification and completion. A suitable topic for the design project will 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.

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**EGDT—ENGINEERING GRAPHICS AND DESIGN TECHNOLOGY**

**EGDT 1000 Basic Drafting**
2:2:0
- A beginning course for Engineering Graphics & Design Technology students; students in the School of Technology, Trades, and Industry programs who need a related drafting class; and general education students wanting to explore a drafting class. Covers basic sketching, instruments and their use, lettering, geometric construction, dimensioning, multi-view drawings, and section views. Completers should be qualified to take any of the first-year drafting technology courses.

**EGDT 1010 Electrical-Electronic Drafting**
3:3:0
- Prerequisite(s): EGDT 1000 or equivalent and EGDT 1040 both with a grade of C- or higher
- Introduces 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.

**EGDT 1020 3D Architectural Modeling**
3:3:0
- Prerequisite(s): EGDT 1040
- Covers creating and storing AutoLisp files and programs. Includes customizing the AutoCAD menu for personal and drafting use. Teaches creating new macros for speeding up repetitive drafting tasks.

**EGDT 1090 AutoLisp**
2:2:0
- On Sufficient Demand
- Prerequisite(s): EGDT 1040 with a grade of C- or higher
- Teaches basic AutoLisp, including the use of AutoLisp for creating custom AutoCAD menu macros.

**EGDT 1040 Computer Aided Drafting—AutoCAD**
3:3:0
- Prerequisite(s): EGDT 1000
- Teaches the drafting AutoCAD 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.

**EGDT 1060 MicroStation**
2:2:0
- Prerequisite(s): EGDT 1000
- Teaches the drafting MicroStation software system in Windows. Drawings are produced, plotted, printed, checked, and corrected on the CAD system.

**EGDT 1070 3 Dimensional Computer Modeling**
3:3:0
- Prerequisite(s): EGDT 1040 with a grade of C- or higher
- For engineering, manufacturing engineering, industrial design, and engineering graphics (drafting) students, as well as anyone interested in solid modeling. A 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 3D modeling tools including extrusions, revolutions, sweeps, lofts, 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.

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**EGDT 1080 AutoLisp**
2:2:0
- Prerequisite(s): EGDT 1040 with a grade of C- or higher
- Teaches basic AutoLisp, including the use of AutoLisp for creating custom AutoCAD menu macros.

**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.

**EGDT 1100 Architectural Drafting**
3:3:0
- Prerequisite(s): EGDT 1040
- For Engineering Graphics and Design Technology majors and other students 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.

**EGDT 1200 Mechanical Drafting**

3:3:0 F, Sp

- Prerequisite(s): EGDT 1000 or equivalent and EGDT 1040 both with a grade of C- or higher


**EGDT 1300 Structural Drafting**

3:3:0 F, Sp

- 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.

**EGDT 1400 Surveying**

4:3:3 Su, F, Sp

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.

**EGDT 1600 Technical Math--Algebra**

3:3:0 F, Sp

- Prerequisite(s): MAT 0920 or equivalent with “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, calculation, and trigonometry as they relate to problem solving on the job. Includes solving equations, percent, proportion, calculation, and graphing, and solving right and oblique triangles.

**EGDT 1610 Technical Math--Geometry/Trig**

3:3:0 F, Sp

- 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 1810 Principles of Technology**

2:1:3 Sp

- 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 “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.

**EGDT 2020 Descriptive Geometry**

3:3:0 F, Sp

- 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, dihedral angle, and revolution. Use of accurate scaling techniques is reinforced. Problems are completed either manually or using CAD.

**EGDT 2040 Piping Drafting**

2:2:0 F, Sp

- 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.

**EGDT 2050 Plate Layout**

2:2:0 F, Sp

- Prerequisite(s): EGDT 2010 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, vent 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.

**EGDT 2100 Advanced Architectural**

3:3:0 F

- 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.

**EGDT 2200 Advanced Mechanical--CAD**

3:3:0 Sp

- Prerequisite(s): EGDT 1200 and EGDT 1070 both with a grade of C- or higher

Employ SolidWorks to produce 3D models. Include sketching, parametric modeling, 3D assemblies, and producing 2D working drawings. Included are sheet metal, structural parts, mass property, and stress analysis.

**EGDT 2300 Advanced Structural--CAD**

3:3:0 Sp

- 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.

**EGDT 2310 Structural Steel Modeling**

3:3:0 Sp

- 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. Preparers for detail and erection drawings which are produced for fabrication and erection of structural steel projects.

**EGDT 2400**
Surveying Applications

4:3:3 F

Prerequisite(s): EGDT 1400 and (EGDT 1600 or MATH 1060) both with a grade of C- or higher

The second course of the surveying series. Covers the use of advanced surveying instruments, advanced leveling procedures, volume computations, monumentation, mapping, boundary surveys, and route surveys. Works with the total station, automatic level, and GPS equipment. Completers should be able to work as an instrument person on survey crews and also prepare the drawings related to the surveys.

**EGDT 2500**
Land Development I

3:3:0 Sp

Prerequisite(s): EGDT 1040, EGDT 1400 and MATH 1060 or EGDT 1600 or equivalent

For students interested in pursuing a career in the field of civil engineering. Introduces design workflow of typical civil engineering firms. Employs in-depth functions of the most common applications software for subdivision design. Includes Digital Terrain Models (DTM)’s, 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.

**EGDT 2600**
Statics

3:3:0 F, Sp

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 F, Sp

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.

**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.

**EGDT 2730**
Special Problems—Civil Drafting

2:2:0 Sp

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.

**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.

**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.

**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.

**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 2010 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.

**EGDT 281R**
Cooperative Work Experience

1 to 8:0:5 to 40 Su, F, Sp

Prerequisite(s): EGDT 1010, EGDT 1040, EGDT 1070, 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. Graded credit/no-credit.

**EGDT 2850**
Cooperative Correlated Instruction/Orientation

0.5:0.5:0 F

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 2870**
Portfolio and Career Preparation

1:1:0 F, Sp

Prerequisite(s): EGDT 2600, EGDT 2610, EGDT 1010, EGDT 1040, EGDT 1600, and EGDT 1610 all with a C- or higher

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term(s)</th>
<th>Prerequisites/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 0990</td>
<td>Basic Reading and Writing II</td>
<td>3:5:0</td>
<td>Su, F, Sp</td>
<td>• Prerequisite(s): ENGL 0980 or Appropriate placement scores</td>
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<td>Focuses on reading-based writing (reading-to-write); expands reading and writing concepts from 0990. Emphasizes integrated academic writing activities of summarizing, analyzing, and synthesizing. All formal essay assignments rely heavily for content on assigned readings. Formal essays for this course may contain argumentative thesis statements (opinionated statements that require evidence to support), at least one essay assignment uses, ethos, logos, pathos and opposing viewpoints, etc.</td>
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<tr>
<td>ENGL 1010**</td>
<td>Introduction to Writing</td>
<td>3:3:0</td>
<td>Su, F, Sp</td>
<td>• Prerequisite(s): Appropriate placement scores or ENGL 0990 with a grade of C- or higher</td>
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<td>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. In addition to major essay assignments, may include in-class writing and collaboration, research writing, journals, and portfolios.</td>
</tr>
<tr>
<td>ENGL 101H</td>
<td>Introduction to Writing</td>
<td>3:3:0</td>
<td>F, Sp</td>
<td>• Prerequisite(s): Appropriate placement scores or ENGL 0990 with a grade of C- or higher</td>
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<tr>
<td>ENGL 2010**</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3:3:0</td>
<td>Su, F, Sp</td>
<td>• Prerequisite(s): ENGL 1010 or ENGL 101H with a grade of C- or better</td>
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<td>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. Focuses on critically evaluating, 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. Smaller class size to facilitate increased student interaction and inquiry.</td>
</tr>
<tr>
<td>ENGL 201H</td>
<td>Intermediate Writing--Humanities/Social Sciences</td>
<td>3:3:0</td>
<td>F, Sp</td>
<td>• Prerequisite(s): ENGL 1010 or ENGL 101H with a grade of C- or better</td>
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</tr>
<tr>
<td>ENGL 2050</td>
<td>Editing</td>
<td>3:3:0</td>
<td>F, Sp</td>
<td>• Prerequisite(s): ENGL 1010</td>
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<td>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.</td>
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<tr>
<td>ENGL 2120</td>
<td>Fantasy Literature</td>
<td>3:3:0</td>
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<td>• Pre- or Corequisite(s): ENGL 1010</td>
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<td>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.</td>
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<tr>
<td>ENGL 2130</td>
<td>Science Fiction</td>
<td>3:3:0</td>
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<td>• Prerequisite(s): ENGL 1010</td>
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<td>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.</td>
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<tr>
<td>ENGL 2150</td>
<td>Critical Introduction to Cinema Studies</td>
<td>3:3:0</td>
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<td>• Prerequisite(s): ENGL 1010</td>
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</tr>
<tr>
<td>ENGL 217G</td>
<td>Race Class and Gender in US Cinema</td>
<td>3:3:0</td>
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<td>• Prerequisite(s): ENGL 1010</td>
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<td>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.</td>
</tr>
<tr>
<td>ENGL 2200</td>
<td>Introduction to Literature</td>
<td>3:3:0</td>
<td>Su, F, Sp</td>
<td>• Prerequisite(s): ENGL 1010</td>
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<td>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.</td>
</tr>
</tbody>
</table>
Course Descriptions

ENGL 210
Introduction to Folklore
3:3:0 F
- Prerequisite(s): ENGL 1010
Corequisite(s): ENGL 1010Introduces 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.

ENGL 2230**
Myths and Legends in Literature
3:3:0 F, Sp
- Prerequisite(s): ENGL 1010
Corequisite(s): ENGL 1010Introduces 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 F
- 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 Su, F, Sp
- 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.

ENGL 225H
Creative Process and Imaginative Writing
3:3:0 F, Sp
- 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.

ENGL 2300**
Shakespeare
3:3:0 Su, F, Sp
- Prerequisite(s): ENGL 1010
Corequisite(s): ENGL 1010For 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 the 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 230H
Shakespeare
3:3:0 HH 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 F, Sp
- 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.

ENGL 2510
American Literature before 1865
3:3:0 Su, F, Sp
- Prerequisite(s): ENGL 1010
Corequisite(s): ENGL 1010Surveys 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.

ENGL 2520
American Literature after 1865
3:3:0 Su, F, Sp
- Prerequisite(s): ENGL 1010
Corequisite(s): ENGL 1010Surveys 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 Su, F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
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. May include 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 HH F, Sp
- Prerequisite(s): ENGL 1010
Corequisite(s): ENGL 1010Presents 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-Classical British literature. Uses discussion, lecture, films, videos, tests, and papers.

ENGL 2620
British Literature after 1800
3:3:0 HH Su, F, Sp
- Prerequisite(s): ENGL 1010
Corequisite(s): ENGL 1010Introduces 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 F, Sp
- Prerequisite(s): ENGL 1010 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 F
- 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
- 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.

ENGL 290R
English Scholarly Forum
1:1:0 F, Sp
For students interested in literature, language and literacy, or planning on an English major. A varying series of lectures, field trips, and service projects that connect students to the professional community. Increases awareness and appreciation of literature.
through reading, writing, and experiencing literary works. May be taken three times for credit.

**ENGL 299R** Independent Study
0.5 to 3:0 to 3:0 to 12  Su, F, Sp
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  F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
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  F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
Considers prominent theories of rhetoric and accompanying methods for the production of texts in various contexts, encouraging adopting, amending, and/or developing hybrid theories of rhetoric.

**ENGL 3020** Modern English Grammars
3:3:0  F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
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  Not 11-12
- Prerequisite(s): ENGL 2010 or ENGL 2020
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.

**ENGL 3040** History of the English Language
3:3:0  F
- Prerequisite(s): ENGL 2010 or ENGL 2020
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  Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020 or Instructor Approval; 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.

**ENGL 3060** Visual Rhetoric
3:3:0  Cross-listed with: HUM 3060
- Prerequisite(s): ENGL 2010 or ENGL 2020
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.

**ENGL 3070** Public Rhetorics and Popular Media
3:3:0  Prerequisite(s): ENGL 3010
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  F, Sp
- Prerequisite(s): ENGL 2600
Corequisite(s): ENGL 3000 Recommended/Interns 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 research from editing to press-ready. Prepares students to extend their abilities with researched writing in other upper-division courses and teaches students advanced scholarly attitudes toward researched writing.

**ENGL 3100** Non-Fiction Cinema History
3:2:3  Not 11-12
- Prerequisite(s): ENGL 2150 or THEA 314G, COMM 314G
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** Film Theory
3:3:0  F
- Prerequisite(s): ENGL 2150 or ENGL 2150
Explores 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.

**ENGL 3150** Film Study
3:3:0  F
- Prerequisite(s): CINE 2150 or ENGL 2150
Explores 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.

**ENGL 3300** Technical Communication for Technology Students
3:3:0  Su, F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
Teaches technical communication skills and genres in demand by business and industry. Provides collaborative experience in the development of a professional caliber project, using suitable technology. Teaches editing and proofreading skills, as well as the use of images and design. Emphasizes primary and secondary research and usability.

**ENGL 3320** Grant and Proposal Writing
3:3:0  F
- Prerequisite(s): ENGL 2010 or ENGL 2020
For interested upper-division students and Technical Writing emphases and minors. Introduces students to private and governmental funding sources. Demonstrates successful proposal and grant writing strategies.

**ENGL 3340** Digital Document Design
3:3:0  Not 11-12
- Prerequisite(s): ENGL 2010 or ENGL 2020
Course Descriptions

ENGL 3420 Intermediate Fiction Writing
3:3:0, F, Sp
- Prerequisite(s): ENGL 2250 or instructor/advisor approval
  Implements a variety of intermediate techniques for generating, writing, and revising stories for publication and public readings, along with readings in theory and fiction.

ENGL 3440 Intermediate Poetry Writing
3:3:0, F
- Prerequisite(s): ENGL 2250 or instructor/advisor approval
  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 3450 Intermediate Creative Nonfiction Writing
3:3:0, F, Sp
- Prerequisite(s): ENGL 2250 or ENGL 225H or instructor/advisor approval
  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 3510 Early American Literature
3:3:0, F
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2510 or ENGL 2520
  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, F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2510 or ENGL 2520
  Studies American literary works during the Romantic period, roughly 1830-1870. Authors 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, F
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2510 or ENGL 2520
  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, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
  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, F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2510 or ENGL 2520
  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, F
- Prerequisite(s): ENGL 2010 or ENGL 2020
  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
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
  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, Phillips, 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 17th Century British Literature
3:3:0, F
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
  Surveys major authors and works from the Augustan and Johnianer 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, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
  Explores British poetry, fiction, and nonfiction of the Romantic era (approx. 1780-1830) by authors including Blake, Wordsworth, Coleridge, Byron, Keats, the Shelleys, and Austen. Examines historical and philosophical trends that shaped the era's literature and were shaped by it. Includes lecture, discussion, small group work, audiovisual presentations, examinations, and writing.

ENGL 3655 Victorian British Literature
3:3:0, F
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
  Explores British poetry, drama, fiction, and nonfiction of the Victorian age (approx. 1830-1900) by authors including Dickens, Tennyson, Eliot, the Browning and Rossettis, Hardy, and Wilde. Examines historical and philosophical trends that shaped the era's literature and were shaped by it. Includes lecture, discussion, small group work, audiovisual presentations, examinations, and writing.

ENGL 3660 Modern British Literature
3:3:0, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
  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. Includes lectures, discussion, audiovisual presentations, written assignments, and exams.
ENGL 3670  
Contemporary British Literature  
3:3:0  
• Prerequisite(s): ENGL 2010 or ENGL 2020, and  
ENGL 2610 or ENGL 2620  
Explores contemporary British literature  
(1945-present) in relation to intellectual and  
historical developments. Emphasizes postmodern  
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  
• Prerequisite(s): ENGL 2010 or ENGL 2020  
Provides a substantive framework of important  
critical issues regarding literature by or 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 373R  
Literature of Cultures and Places  
3:3:0  
• Prerequisite(s): ENGL 2010 or ENGL 2020  
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, texts,  
and papers.

ENGL 374G  
Literature of the Sacred  
3:3:0  
• Prerequisite(s): ENGL 2010 or ENGL 2020  
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. Discourses texts from a  
literary standpoint within the genre of "religious  
writing." Requires reading, informal and formal  
writing, and tests.

ENGL 376G  
World Literature  
3:3:0  
• Prerequisite(s): ENGL 2010 or ENGL 2020  
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  
closely related authors.

ENGL 3780  
Mormon Literature  
3:3:0  
• Prerequisite(s): ENGL 2010 or ENGL 2020  
Surveys the foundations of Mormon literature as  
expressed through short fiction, novels, personal  
short stories, drama, history and criticism. Includes  
readings, quizzes, presentations, papers, and  
exams.
ENGL 4340 Advanced Document Design 3:3:0
• Prerequisite(s): ENGL 2010 or ENGL 2020; ENGL 2310
Continues work begun in ENGL 2310. Teaches user-centered document design. Involves the creation of a full-length project, including initial proposals and research, drafting, collaboration, usability testing, and document management. Emphasizes building a professional portfolio and preparing job search materials.

ENGL 4350 Senior Project 2:1:2 On Sufficient Demand
• Prerequisite(s): Departmental Approval, Senior Status
For Senior English majors and minors. Work independently with clients and instructors to produce a major print or electronic document.

ENGL 436R Topics in Technical Communication 3:3:0 Not 11-12
• Prerequisite(s): ENGL 2010 or ENGL 2020
Examines key issues and theories in technical communication. Topics vary each semester and include financial, environmental, and medical writing, science writing, and ethical issues in technical writing. May be taken twice with different topics.

ENGL 4420 Advanced Fiction Writing 3:3:0 F, Sp
• Prerequisite(s): ENGL 3420
Implements a variety of advanced techniques for generating, writing, and revising stories for publication and public readings, along with readings in theory and fiction.

ENGL 4430 Play Writing for Creative Writers 3:3:0 Sp
• Prerequisite(s): ENGL 2250 or ENGL 225H or by instructor permission
Teaches the skills and processes of successful playwriting. Presents playwriting through textual analysis and play attendance. Includes lectures, discussions, oral presentations, and a final portfolio of dramatic writing.

ENGL 4440 Advanced Poetry Writing 3:3:0 Sp
• Prerequisite(s): ENGL 3440
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 4570 Studies in the American Novel 3:3:0
• Prerequisite(s): ENGL 2010 or ENGL 2020
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 Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
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 F, Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
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 Not 11-12
• Prerequisite(s): ENGL 2010 or ENGL 2020
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 4671R Eminent Authors 3:3:0 F, Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
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 3:3:0 On Sufficient Demand
• Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2600
Focuses student reading, research, and discussion on specific areas of concentration within the field of gender studies. (Specific areas of focus will 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 Not 11-12
• Prerequisite(s): ENGL 2210 or instructor/advisor approval
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 Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
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 8:0:5 to 40 Su, F, Sp
• Prerequisite(s): Departmental approval, senior status
For senior English majors and minors. Internships are intended to offer students opportunities to work with instructors and other professionals on tasks related to the field of English. 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. May be repeated for a maximum of 6 credits toward graduation.

ENGL 486R Topics in Literature 3:3:0 F, Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
Studies various topics/themes in fiction, poetry, drama, essay, film, or other art forms such as ethics in literature, queer literature, literature and the environment, literature and war, literature and the civil rights movements, etc. Subject matter will vary each semester. May be repeated twice for different topics.

ENGL 488H English Honors Seminar 3:3:0
• Prerequisite(s): ENGL 3090 and ENGL 3890
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 3:3:0 to 9 F, Sp, Su
• Prerequisite(s): Department Chair and Instructor Approval
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 two times for a total
of up to nine credits.

**ENGR 4950**
**Senior Seminar**
3:3:0  F, Sp
- Prerequisite(s): ENGR 3000, ENGR 3090, ENGR 3890, and Senior Standing recommended
Explores the value and relevance of an English degree. Further 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.

**ENGR 498H**
**Honors Thesis Preparation**
3:3:0  Pre- or Corequisite(s): ENGR 498H
Serves as the first half of the thesis experience for Departmental Honors in English. Reviews and improves students’ research methodologies. Requires that students initiate collaboration with one or more instructors in a directed research and writing project. Explores and develops thesis topic in consultation with faculty. Builds on skills and knowledge gained in earlier courses, including research skills in primary and secondary sources, critical thinking, and literary analysis.

**ENGR 499H**
**Honors Thesis**
3:3:0  Prerequisite(s): ENGR 498H
Serves as the second half of the thesis experience for English Honors. Operates as an independent study. Continues the research begun in ENGR 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.

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**ENGR—ENGINEERING SCIENCE**

**ENGR 1000**
**Introduction to Engineering**
3:3:0  F, Sp
- Prerequisite(s): MAT 1000 or MAT 1010
Introduces the various areas of engineering to pre-engineering majors and others interested in learning more about the contributions engineers make to our modern society. Includes a brief history of engineering and discussions about what engineers really do. Discusses professional ethics, responsibilities, and career opportunities. Emphasizes problem solving skills and the processes and procedures of engineering design. Includes lectures, projects, guest speakers, field trips, and in-class exercises.

**ENGR 2010**
**Engineering Statics**
3:3:0  F, Sp
- Prerequisite(s): MATH 1210
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.

**ENGR 2030**
**Engineering Dynamics**
3:3:0  F, Sp
- 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.

**ENGR 2140**
**Mechanics of Materials**
3:3:0  F, Sp
- 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.

**ENGR 2300**
**Engineering Thermodynamics**
3:3:0  Sp
- Prerequisite(s): MATH 1220, PHYS 2210

**ENGR 2450**
**Computational Methods for Engineering Analysis**
3:3:0  F
- Prerequisite(s): MATH 1210, CS 1400
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.

**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.

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**ENVT—ENVIRONMENTAL STUDIES**

**ENVT 1110**
**Introduction to Environmental Management**
3:3:0  F, Sp
Surveys environmental issues and the impact of people on the environment. Covers water, air, and soil pollution. Discusses pollution prevention and remediation methods. For majors and any who have an interest in environmental issues.

**ENVT 1200**
**Environmental Worker Safety**
3:3:0  F
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  F
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  F
- Prerequisite(s): 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  Sp
Studies basic laboratory techniques used by labs working on environmental projects. Covers safety, pH, dissolved oxygen, BOD, turbidity, organics, and others. Includes opportunities for undergraduate research.

**ENVT 1360**
**Introduction to Water Treatment**
3:3:0  F
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.
Course Descriptions

**ENVT 1510 Hazardous Materials Emergency Response** 3:3:0 F
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.

**ENVT 2560 Environmental Health** 3:3:0 Sp
- Prerequisite(s): BIOL 1010 and CHEM 1110 recommended
Presents how environmental protection and proper sanitation can protect the public. Covers control of infectious and noninfectious diseases, safe water supplies, housing safety, radiation hazards, and air pollution.

**ENVT 2600 Skills for Humanitarian Projects** 3:3:0 F
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.

**ENVT 2710 Environmental Careers** 1:1:0 Sp
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 Sp
- Prerequisite(s): ENGL 1010
Covers soil-water relations, soil classification, soil conservation, fertility, and soil chemistry. Discusses impacts such as agriculture and recreation upon soil quality.

**ENVT 282R Environmental Internship** 1 to 5:0:5 to 25 Su, F, Sp
- 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.

**ENVT 3000 GIS and GPS Applications for the Earth Sciences** 3:3:0
- Prerequisite(s): ENVT 1110 or GEO 1010
Introduces students to the basic applications of GIS and GPS now often needed to carry out environmental and geological projects. Teaches how to operate hand held and survey grade GPS systems. Introduces students to the latest version of Arcview software and they are asked to carry out a sample GIS project.

**ENVT 3010 Environmental Toxicology** 3:3:0 F
- 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 F
- 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
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
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 3350 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 3530 Environmental Law** 3:3:0 On Sufficient Demand
- Prerequisite(s): CHEM 1110 (recommended)
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 3550 Site Investigation** 3:3:0 On Sufficient Demand
- Prerequisite(s): CHEM 1110 (recommended)
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.

**ENVT 3700 Current Topics in Environmental Management** 3:3:0 Sp
- Prerequisite(s): 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 F
- Prerequisite(s): 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): 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** 4:3:2 On Sufficient Demand
- Prerequisite(s): MATH 1050, GEO 1010, GEO 1015
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
- Prerequisite(s): PHYS 1010 or PHSC 1000 or CHEM 1010 or GEO 1010 or GEO 2040 or METO 1010) and MATH 1050
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 Su, F, Sp
- 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 482R  (Cross-listed with: GEO 452R)  
Geologic/Environmental Internship  
1 to 3:0:5 to 15  
Su, F, Sp  
- Prerequisite(s): GEO 1010 or ENVT 1110, and 12 credit hours of any GEO, GEOG, or ENVT courses, and declared major in any Earth Science program.  
- 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.

ENVT 485R  
Special Projects in Environmental Management  
1 to 3:0:3 to 9  
Su, F, Sp  
- Prerequisite(s): Instructor Permission  
- 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 six credits toward graduation.

ENVT 4790  
Hydrology II  
4:3:2  
Su, F, Sp  
- 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.

ESAF—EMERGENCY SERVICES— 
AIRCRAFT RESCUE 
FIREFIGHTING

ESAF 2100  
Airport Firefighter  
3:3:0  
Su, F, Sp  
- Prerequisite(s): (ESFF 131C and ESFF 131D) 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.

ESAF 2110  
Aircraft Related Mass Casualty Incidents  
3:3:0  
Su, F, Sp  
- Prerequisite(s): (ESFF 131C and ESFF 131D) 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.

ESAF 2120  
Aircraft Mishaps  
3:3:0  
Su, F, Sp  
- Prerequisite(s): (ESFF 131C and ESFF 131D) 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.

ESAF 2130  
Aviation Terrorism Response  
3:3:0  
Su, F, Sp  
- Prerequisite(s): (ESFF 131C and ESFF 131D) 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.

ESAF 2140  
Airport Operations for the Emergency Responder  
3:3:0  
Su, F, Sp  
- Prerequisite(s): (ESFF 131C and ESFF 131D) 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.

ESEC—EMERGENCY SERVICES— 
EMERGENCY CARE

ESEC 1140  
Emergency Medical Technician—Basic  
9:7:6  
Su, F, Sp  
- Corequisites(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, truncal cutaneous pacing, cardioversion, medication delivery, and patient assessment. Completers should be qualified to progress to the second semester program.

ESEC 3110  
Paramedic I  
5:5:0  
F, Sp  
- Corequisites(s): ESEC 3110, ESEC 3130, 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 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.

ESEC 3120  
Paramedic I Lab  
3:0:9  
F, Sp  
- Corequisites(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, truncal cutaneous pacing, cardioversion, medication delivery, and patient assessment. Completers should be qualified to progress to the second semester program.

ESEC 3130  
Paramedic II  
7:6:3  
F, Sp  
- Corequisites(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 musculo-skeletal 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.

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ESEC 3140
Paramedic III
4:4:0 F, Sp
- Corequisites(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.

ESEC 4110
Paramedic IV
6:5:3 Su, Sp
- Prerequisite(s): ESEC 3110, ESEC 3120, ESEC 3130, and ESEC 3140
- Corequisites(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.

ESEC 4120
Paramedic Clinical Concepts
6:0:18 Su, Sp
- Corequisites(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

ESFF—EMERGENCY SERVICES - FIREFIGHTING

ESFF 1000
Introduction to Emergency Services and Ability Testing
4:4:0 Su, F, Sp
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.

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 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.

ESFF 100B
Firefighter Physical Ability Testing
1:1:0 On Sufficient Demand
Prerequisite(s): 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
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, firestimes, fire hose, salvage, overhaul, fire suppression techniques, communications, fire sprinklers, and fire inspection.

ESFF 1120
Principles of Fire and Emergency Services Safety and Survival
3:3:0 Su, F, Sp
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.

ESFF 1210
Firefighting Skills I
4:0:12 On Sufficient Demand
Prerequisite(s): 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 1220
Firefighting Fundamentals and Skills II
3:1:6 On Sufficient Demand
Prerequisite(s): 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 131A
Recruit Candidate Academy I
3:3:0 F, Sp
Prerequisite(s): 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 131B
Recruit Candidate Academy II
3:3:0 F, Sp
Prerequisite(s): 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 131C
Recruit Candidate Academy III
3:1:6 F, Sp
Prerequisite(s): 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 131D
Recruit Candidate Academy IV
3:2:3  F, Sp
- Pre- or Corequisite(s): ESFF 131A or department approval

For students with no fire fighting experience. Addresses the operational and performance requirements of Firefighter I and II certification per NFPA 1001. Professional Qualifications for Firefighters. Includes flammable gas fire fighting, vehicle fire fighting, exterior fire fighting, interior fire attack, flat roof ventilation, pitched roof ventilation, hose lays, search and rescue operations, and self-rescue techniques.

ESFF 1340
Hazardous Materials First Responder
3:3:0  F, Sp
- Pre- or Corequisite(s): ESFF 131A 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 to certify at both the Hazardous Materials Awareness and Operations levels.

ESFF 1360
Basic Firefighter Internship
3:0:15  Su, F, Sp
- 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.

ESFF 1370
Fundamentals of Apparatus Operation
3:3:0  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.

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.

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.

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.

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.

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.

ESFF 281R
Emergency Services Internship
1 to 8:0:5 to 40  Su, F, Sp
- 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.

ESFO—EMERGENCY SERVICES - FIRE OFFICER

ESFO 1100
Fire Behavior and Combustion
3:3:0  Su, Sp

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.

ESFO 1110
Fire Prevention
3:3:0  Su, F

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.

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.

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
Course Descriptions

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.

ESFO 2050 Fire Protection and Detection Systems
3:3:0 F, Sp
- 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.

ESFO 2080 Building Construction for the Fire Services
3:3:0 F, Sp
- 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.

ESFO 2100 Fire Officer I: Supervision and Leadership
3:3:0 F
- 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 incident command requirements, 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.

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.

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.

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.

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 2300 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.

ESO—ENGLISH AS A SECOND LANGUAGE

ESL 0100 Basic English Language Immersion
12:12:0 On Sufficient Demand
- 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 On Sufficient Demand
- 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.

ESL 010B Basic English Listening and Speaking
5:5:0 On Sufficient Demand
- 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
2:2:0 On Sufficient Demand
- 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 communication.
### Course Descriptions

#### ESL 0910
**Listening/Speaking Level I**  
5:5:0  
**Su, F, Sp**  
- *Prerequisite(s): Department Approval*  
For students whose native language is other than English. Introduces concepts of pronunciation, intonation, stress, and English phonics. Explores use of simple statements, questions, and commands on familiar topics. Introduces students to academic lectures and conversations. Includes weekly use of the UVU Language Lab where beginning conversation skills are emphasized and practiced.

#### ESL 0920
**Reading Level I**  
5:5:0  
**Su, F, Sp**  
- *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  
**Su, F, Sp**  
- *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  
**Su, F, Sp**  
- *Prerequisite(s): Department Approval*  
For students whose native language is other than English. Introduces English grammar and related structures, and use of nouns, pronouns, adverbs, sentence connectives, descriptives, and related forms. Expands use of simple statements, questions, and commands on familiar topics. Introduces students to writing tasks. Includes weekly use of the GA Computer Classroom where low-intermediate writing skills are emphasized and practiced.

#### ESL 1200
**Reading Level II**  
5:5:0  
**Su, F, Sp**  
- *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, 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 1230
**Writing Level II**  
5:5:0  
**Su, F, Sp**  
- *Prerequisite(s): Department Approval*  
For students whose native language is other than English. Studies low-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  
**Su, F, Sp**  
- *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. Expands use of modal auxiliaries, conditional sentence usage, phrases and adverbial clauses. Introduces noun and adverbial clauses.

#### ESL 1300
**Reading Level III**  
5:5:0  
**Su, F, Sp**  
- *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 1310
**Writing Level III**  
5:5:0  
**Su, F, Sp**  
- *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 1320
**Listening/Speaking Level III**  
5:5:0  
**Su, F, Sp**  
- *Prerequisite(s): Department Approval*  
For students whose native language is other than English. Studies advanced 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 1330
**Advanced Reading/Vocabulary**  
5:5:0  
**Su, F, Sp**  
- *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, skim, scan, recognize 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 1340
**Advanced Composition**  
5:5:0  
**Su, F, Sp**  
- *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 2100
**Advanced Listening/Speaking**  
5:5:0  
**Su, F, Sp**  
- *Prerequisite(s): Department Approval*  
For students whose native language is other than English. Studies advanced concepts or pronunciation, intonation, stress, English phonics, 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 and debates. Includes weekly use of the UVU Language Lab where advanced conversation skills are emphasized and practiced. Satisfies AAS Humanities requirements.
Course Descriptions

ESL 2150 Academic Skills--TOEFL 5:0:0
- 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.

ESMG—EMERGENCY SERVICES

ESMG 310G Introduction to Homeland Security 3:3:0 Su, F, Sp
- Prerequisite(s): ENGL 1010
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.

ESMG 3150 Public Program Administration 3:3:0 Su, F, Sp
- Prerequisite(s): ENGL 1010
Emphasizes the development process and analytical skills necessary to assess risk in the community and then critique and select appropriate methodology to address problems. Looks at fire prevention programs as an example of legislative processes, codes and ordinances, budget development, etc.

ESMG 3200 Health and Safety Program Management 3:3:0 Su, F, Sp
- Prerequisite(s): ESMG 3150 or sufficient Emergency Services work experience
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.

ESMG 3250 Managing Emergency Medical Services 3:3:0 Su, F, Sp
- Prerequisite(s): ESMG 3150 or sufficient Emergency Services work experience
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.

ESMG 3300 Master Planning for Public Emergency Services 3:3:0 Su, F, Sp
- Prerequisite(s): ESMG 3200 or sufficient Emergency Services work experience
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.

ESMG 3350 Analytical Research Approaches to Public Emergency Services 3:3:0 Su, F, Sp
- Prerequisite(s): ESMG 3250 or sufficient Emergency Services work experience
Provides an overview of the basic research design, 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.

ESMG 4400 Legal Considerations for the Emergency Services 3:3:0 Su, F, Sp
- Prerequisite(s): ESMG 3300 or sufficient emergency services work experience and instructor approval
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.

ESMG 4500 Human Factors in Emergency Management 3:3:0 Su, F, Sp
- Prerequisite(s): ESMG 3300 or sufficient emergency services experience
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.

ESMG 4500 Customer Service and Marketing for the Emergency Services 3:3:0 Su, F, Sp
- Prerequisite(s): ESMG 3350 or sufficient Emergency Services experience
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.

ESMG 4550 Principles of Disaster and Emergency Management 3:3:0 Su, F, Sp
- Prerequisite(s): ESMG 4500 or sufficient emergency services experience
Introduces the student to the need for and creation of comprehensive emergency planning operations. Examines 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.

ESMG 4600 Public Administration and Emergency Management 3:3:0 Su, F, Sp
- Prerequisite(s): ESMG 4500 or sufficient emergency services experience
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.

ESMG 4650 Emergency Services Capstone 3:3:0 Su, F, Sp
- Prerequisite(s): ESMG 4500 or sufficient emergency services experience
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.

ESMG 481R Emergency Services Internship 1 to 8:3:0 to 40 Su, F, Sp
- Prerequisite(s): ENGL 2010, ESFF 1000 or sufficient emergency services experience
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.

ESMG 489R Undergraduate Research in Emergency Management 1 to 3:1 to 3:0 Su, F, Sp
- Prerequisite(s): ENGL 2010, ESFF 1000 or departmental approval
Provides students the opportunity to conduct research under the mentorship of a faculty member. Requires students to put in practice the theoretical knowledge gained in prior Emergency Services courses. Calls for the creation of a significant intellectual or creative product that is characteristic
Provides experience in fighting fires at wildfire and wildland fires.

ESME 491R
Topics in Cardiology and Medical Trends
1 to 3:1 to 3:0 Su, F, Sp
• Prerequisite(s): ENGL 2010, ESWF 1000 or departmental approval
Surveys a specific topic in cardiology and medical trends related to the Emergency Management discipline. Topic varies each semester. May be repeated for a maximum of 6 credits toward graduation.

ESME 492R
Topics in Trauma and Pharmacology
1 to 3:1 to 3:0 Su, F, Sp
• Prerequisite(s): ENGL 2010, ESWF 1000 or departmental approval
Surveys a specific topic in trauma and pharmacological trends. Topic varies each semester. May be repeated for a maximum of 6 credits toward graduation.

ESME 493R
Topics in Medical Litigation
1 to 4:1 to 4:0 Su, F, Sp
• Prerequisite(s): ENGL 2010, ESWF 1000 or departmental approval
Surveys a specific topic in medical litigation. Topic varies each semester. May be repeated for a maximum of 4 credits toward graduation.

ESWF—Emergency Services
Wildland Firefighter I

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 (FFT1). 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 Look 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 F, Sp
Designed to meet the Wildland Firefighter I knowledge and skill requirements of NFPA 1051, Wildland Fire Fighter Professional Qualifications. Teaches students to recognize the 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.

ESWF 1420
Wildland Firefighter Internship II
5:2:9 Su
• 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 strategy 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.

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 demobilization 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
S244 Ignition Operations
2:2:0 On Sufficient Demand
• Prerequisite(s): Meet NWCG prequalifications or departmental approval.
Provides training in the functional 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 Su
• 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.

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 Followship 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.
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 3020
I300 Intermediate Incident Command System
1.5:1.5:0
On Sufficient Demand
• Prerequisite(s): Meet NWCG prequalifications or departmental approval.
Provides description and detail of the Incident Command System (ICS) organization and operations in supervisory roles on expanding or Type 3 incidents. Topics include: ICS fundamentals review, incident/event assessment and agency guidance in establishing incident objectives, Unified Command, incident resource management, planning process, demobilization, transfer of command, and close out.

ESWF 3300
S330 Task Force Strike Team Leader
1.5:1.5:0
On Sufficient Demand
• Prerequisite(s): Meet NWCG prequalifications or departmental approval.
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 3360
S336 Tactical Decision Making in Wildland Fire
1.5:1.5:0
On Sufficient Demand
• Prerequisite(s): Meet NWCG prequalifications or departmental approval.
Meets training requirements in the Operations section of the Incident Command System. Includes examples and exercises 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.
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 and/or departmental approval.
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.

EXSC—EXERCISE SCIENCE

EXSC 2500
Sports Medicine
3:3:0
F, Sp
• Prerequisite(s): ZOOL 1090 or permission of instructor
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
1:3:0
F, Sp
• 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.

EXSC 270G
Foundations of Exercise Science
3:3:0
Su, F, Sp
Introduces the study of 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
F, Sp
• Prerequisite(s): PES 1097
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.

EXSC 3350
Kinesiology
3:3:0
F, Sp
• Prerequisite(s): ZOOL 1090 or ZOOL 2320
Studies human movement. Includes the structure of the human body and fundamental mechanics. Emphasizes kinesiological and mechanical analysis.

EXSC 3550
Motor Learning and Development
3:2:2 F, Sp
• Prerequisite(s): EXSC 270G
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.

EXSC 3700 (Cross-listed with: ZOOL 3700)
Exercise Physiology
3:3:0
F, Sp
• Prerequisite(s): ZOOL 1090 or (ZOOL 2320 and ZOOL 2420); MATH 1050
• Corequisite(s): EXSC 3705
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  
- Corequisite(s): EXSC 3700  
Studies acute and chronic physiological responses to exercise, as well as nutritional and environmental effects on these responses. The laboratory is designed to offer the hands-on experience where students will experience the physiological responses to different stressors in the lab setting. The labs are arranged to be conducted as similar material is being discussed in class.

EXSC 3730 Biomechanics 3:3:0  
- Prerequisite(s): EXSC 3500 and ZOOL 2320  
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.

EXSC 3750 Psychosocial Aspects of Human Performance 2:2:0  
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  
- Prerequisite(s): EXSC 270G  
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  
- Prerequisite(s): MATH 1050, ZOOL 2320, EXSC 3270  
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  
- Prerequisite(s): ZOOL 1090, EXSC 3270  
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 4300 Research Methods in Exercise Science and Outdoor Recreation 3:3:0  
- Prerequisite(s): EXSC 3500  
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.

EXSC 4400 Physical Activity Promotion in the Community 3:3:0  
- Prerequisite(s): Senior 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  
- Prerequisite(s): EXSC 4400  
- Corequisite(s): EXSC 4400  
Provides complementary field experiences for students taking EXSC 4400 (Physical Activity Promotion in the Community).

EXSC 4500 Advanced Sports Nutrition 3:3:0  
- Prerequisite(s): EXSC 3700  
Designed to provide exercise science students a comprehensive understanding of basic nutritional principles as they relate to sports.

EXSC 4600 Advanced Biomechanics 3:3:0  
- Prerequisite(s): EXSC 3730  
Teaches the application of mechanical principles to the development of motor skills, including research and technology utilized in the field of biomechanics.

EXSC 4700 Advanced Gross Motor Assessment 3:3:0  
- Prerequisite(s): ZOOL 2320, ZOOL 2420, EXSC 2500, EXSC 3500  
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 / qualify 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  
- Corequisite(s): FAC 285R  
For Facilities Management majors. Includes student, employer and coordinator evaluation, on-site work visits, written assignments, and oral presentations. Includes correlation of work experience and enrollment by a coop coordinator. Provides experience in writing and completing individualized work objectives improving present work performance.

EXSC 485R Cooperative Correlated Class 1:1:0  
- Corequisite(s): FAC 28R  
Allows FAC majors to correlate with Facilities Management Coordinator to gain proper work experience. Includes student, employer, and coordinator evaluations. Requires written assignments and oral presentations. Provides individualized work objectives to improve work and communications skills.

EXSC 4950 Senior Seminar 2:2:0  
- Prerequisite(s): Senior 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.

FAC 1010 Survey of Facilities Management 3:3:0  
Provides students with hands-on professional experience 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 Exercise Science discipline and worthy of communication to a broader audience. May be repeated for a maximum of 8 credits toward graduation.

FAC 281R Cooperative Work Experience 1 to 8:0:5 to 40  
- Corequisite(s): FAC 285R  
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 / qualify 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.

FAC 285R Cooperative Correlated Class 1:1:0  
- Corequisite(s): FAC 28R  
Allows FAC majors to correlate with Facilities Management Coordinator to gain proper work experience. Includes student, employer, and coordinator evaluations. Requires written assignments and oral presentations. Provides individualized work objectives to improve work and communications skills.

FAMS 1150 Marriage and Relationship Skills 3:3:0  
Provides knowledge and skills for students interested in building a lasting relationship. Examines marital research and the factors and issues that help determine whom and when to marry. Reviews research based practices to resolve specific relationship challenges. Emphasizes increased understanding of desirable relationship outcomes and how to achieve them.
FAMS 3240
Relationship Enhancement Programs
3:3:0
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher)
- Increases knowledge of research based methods and programs to enhance marriage relationships.
- Prepares students to administer and evaluate pre-marriage and marriage assessments and teach selected portions of a marriage enhancement education program.

FAMS 3250
Applied Parenting
3:3:0
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher)
- 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 4500
Family Life Education Methodology
4:4:0
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher)
- 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
3:3:0
- On Sufficient Demand
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher), 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
3:3:0
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher), 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, inflation, and renewal in contemporary family systems.

FAMS 481R
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, and BESC 3020.
- Provides practical and research experience over the course of the 15 week semester 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. Internships approved by faculty and written contracts must be signed. May be repeated for up to 9 credits toward graduation. Graded Credit/No Credit

FIN 1060
Personal Finance
3:3:0
- Designed 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.

FIN 3060
Introduction to the PFP Profession
3:3:0
- Prerequisite(s): MATH 1050
- 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 financial risk management.

FIN 3010
Principles of Finance
3:3:0
- Prerequisite(s): ECON 2020, MGMT 2340, and ACC 2020 or ACC 3000 and MATH 1100 or MGMT 22400
- 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.

FIN 3150
Financial Management
3:3:0
- Prerequisite(s): FIN 3100
- 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.

FIN 3160
Financial Management for Accounting Majors
3:3:0
- Prerequisite(s): FIN 3100, MATH 1050
- 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
- Prerequisite(s): BESC 3800, MATH 1050
- 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
- Prerequisite(s): FIN 3060, MATH 1050
- 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 related issues.
FIN 3220 Risk Management and Insurance 3:3:0
- Prerequisite(s): MATH 1050
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 learning activities that facilitate growth and development in written and oral communication skills.

FIN 3400 Investment Management 3:3:0
- Prerequisite(s): FIN 3100
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.

FIN 4100 Management of Financial Institutions 3:3:0
- Prerequisite(s): FIN 3100
Studies the U.S. financial system and its primary institutions and markets. Includes the role of the Federal Reserve System, American and international financial markets. Explores 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 thrift institutions and insurance companies.

FIN 4160 Portfolio Management 3:3:0
- Pre- or Corequisite(s): FIN 3400
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 of 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
- Prerequisite(s): FIN 3100
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
- Prerequisite(s): FIN 3100 and MGMT 330G and (FIN 3150 or FIN 3400 or FIN 4100)
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 4210 Estate Planning Fundamentals 3:3:0
- Prerequisite(s): ACCT 3400, FIN 3060, FIN 3210, FIN 3400, FIN 3220
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.

FIN 4270 Wealth Management Seminar 3:3:0
- Prerequisite(s): FIN 3060, FIN 3400, ACC 3400
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
- Prerequisite(s): FIN 3060, FIN 3210, FIN 3220, FIN 3400, ACC 3400
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 457R Advanced Topics in Finance 3:3:0
- Prerequisite(s): FIN 3100 and Instructor Approval
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
- Prerequisite(s): FIN 3060, FIN 3210, FIN 3220, FIN 4210, FIN 3400, ACC 3400; and Departmental Approval
Describes corporate financial management cases and analyses dealing with problems of working capital management, capital budgeting, cost of capital evaluation, and corporate restructuring.

FIN 481R Personal Financial Planning Internship 3 to 8 : 0:15.0 to 40.0
- Prerequisite(s): Completion of Online Orientation and Departmental Approval
Provides supervised, practical, and professional experience for students preparing for careers in Personal Financial Planning. Graded credit/no credit. May be repeated for a maximum of eight credit hours. Graded Credit/No Credit

FIN 6150 Financial Management 3:3:0
- Prerequisite(s): Acceptance in the MBA program
Reviews of 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. Analyze 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 8350 Personal Financial Planning Internship
3:1:6 On Sufficient Demand
- Prerequisite(s): MATH 1050
Ordered presentation of data that will be contained in a multi-media project due no later than one month after tour.

FREN 1010 Beginning French I 4:4:1
- Corequisite(s): LH
LH
4:4:1 F, Sp
Emphasizes understanding, speaking, reading and writing skills. Basic language usage and cultural understanding are acquired through an activity-based approach.

FREN 1020 Beginning French II 4:4:1
- Prerequisite(s): Students need equivalent knowledge of FREN 1010
LH
4:4:1 F, Sp
Completes the first year of study. Includes the remaining grammar, language concepts, and culture, and introduces students to literature in French.

FREN 1500 French Travel Study 3:1:6
- On Sufficient Demand
LH
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 multi-media project due no later than one month after tour.
FREN 2010  Intermediate French I  4:4:1  LH  
- 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.

FREN 202G  Intermediate French II  4:4:0  Sp  
- Prerequisite(s): Students need equivalent knowledge of FREN 2010  
Emphasizes reading, writing, and conversational skills through socio-cultural studies in history, literature and art.

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 3030  French Composition and Conversation  3:3:0  On Sufficient Demand  
- Prerequisite(s): FREN 202G or instructor's approval  
Emphasizes production skills [speaking and writing], reviews and expands lexical depth and advances mastery of French grammar. Examines contemporary French culture topics [family, education, love and the couple, religion, social challenges, 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. Conducts all course work in French only.

FREN 3040  Introduction to Literary Genres in French  3:3:0  On Sufficient Demand  
- Prerequisite(s): FREN 202G or equivalent  
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  Advanced French  3:3:0  F  
- 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 excerpts and complete works. Includes a review of grammar and an introduction to French culture.

FREN 3200  Business French  3:3:0  On Sufficient Demand  
- Prerequisite(s): Students need equivalent knowledge of FREN 3050  
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.

FREN 3510  Culture and Civilization to 1700  3:3:0  On Sufficient Demand  
- Prerequisite(s): Students need equivalent knowledge of FREN 3050  
Explores chronologically to 1700 the formation and development of French speaking societies and cultures. Completers should acquire an understanding of the ethnic development and linguistic history of these societies and countries. Presentations and class instruction conducted entirely in French.

FREN 3520  Culture and Civilization from 1700  3:3:0  On Sufficient Demand  
- Prerequisite(s): Students need equivalent knowledge of FREN 3050  
Explores chronologically from 1700 the evolution and development of French speaking societies and cultures. Completers should acquire an understanding of the ethnic development and linguistic history of these societies and countries. Presentations and class instruction conducted entirely in French.

FREN 3610  French Literature to 1700  3:3:0  On Sufficient Demand  
- Prerequisite(s): Students need equivalent knowledge of FREN 3050  
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): Students need equivalent knowledge of FREN 3050  
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): Students need equivalent knowledge of FREN 3200  
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 490R  Special Topics in French  3:3:0  
- Prerequisite(s): FREN 2020 or instructor approval  
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 nine credit hours towards graduation.

FSCl—FORENSlC SCIENCE

FSCI 100R  Forensic Science Lecture Series  1:1:0  F, Sp, Su  
- Prerequisite(s): CJ 1350 or FSCI 3400 both with a C+ or higher  
Consists of lectures presented by guest speakers on current topics in forensic science. May apply a maximum of three credits toward graduation.

FSCI 3400  Criminalistics  3:3:1  Su, F, Sp  
- Prerequisite(s): CJ 1350 with a C+ or higher  
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.

FSCI 3500  Footwear Impression Evidence  3:2:3  Sp  
- Prerequisite(s): CJ 1350 or FSCI 3400 both with a C+ or higher  
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 formulas and instructs in the preparation of 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.
FSCI 3520
Tire Imprint Evidence
3:2:3 Sp
• Prerequisite(s): CJ 1350 or FSCI 3400 both with a C+ or higher

Practices the identification, recovery, and interpretation of tire impressions. Provides a historical perspective on tire impression development and examination. Focuses on the mechanics of tire tread and sidewall patterns and their relationship to tire and vehicle characteristics. Teaches Crime Scene and Accident Investigation: recording tire impressions, wheelbase and tire tread stance measurements. Describes the Tire Imprint Identification System: tire noise treatments, wear indicators, 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 F
• Prerequisite(s): FSCI 3400 or CHEM 2310 with a C+ or higher

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. Instructs 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.

FSCI 3550
Forensic Trace Analysis II
3:2:3 On Sufficient Demand
• Prerequisite(s): FSCI 3400 or CHEM 2310 with a C+ or higher

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.

FSCI 3700
Fingerprint Examination I
3:3:0 F, Su
• Prerequisite(s): CJ 1350 or FSCI 3400 both with a C+ or higher

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.

FSCI 3720
Fingerprint Examination II
3:3:0 Sp
• Prerequisite(s): CJ 1350 or FSCI 3400 both with a C+ or higher


FSCI 3740
Fingerprint Examination III
3:3:0 On Sufficient Demand
• Prerequisite(s): Instructor's Consent


FSCI 3780
Bloodstain Pattern Analysis
3:3:0 On Sufficient Demand
• Prerequisite(s): CJ 1350 or FSCI 3400 with a C+ or higher

Teaches methods for protection against bloodborne 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 reconstructing the crime scene. Presents guidelines for presenting bloodstain evidence at trial.

FSCI 3800
Computer Forensics and Cyber Crime
3:3:0 On Sufficient Demand
• Prerequisite(s): CJ 1350 or FSCI 3400 with a C+ or higher or Instructor approval

Introduces computer forensics and cyber crime. Teaches computer terminology, history, and the history of computer crime. Discusses computer crime, computer as targets, hacking, and beyond. Presents avenues for prosecution and government efforts cyber crime. Presents the application of First Amendment, Fourth Amendment, and the Electronic Communications Privacy Act to computer-related crime. Teaches applicable forensic terminology and the standards applied to computer investigations. Develops computer forensic science capabilities. Describes pre-search activities, approaching and securing the crime scene, and crime scene processing. Teaches methods of data protection, retrieval, and analysis. Presents conclusions and future issues.

FSCI 3820
Crime Scene Investigation Techniques I
3:3:0 On Sufficient Demand
• Prerequisite(s): CJ 1350 or FSCI 3400 with a C+ or higher

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 F, Sp
• Prerequisite(s): CJ 1340
• 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 document examination 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.

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

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.

**FSCI 3860 Forensic Microscopy**
3:3:0 F

- Prerequisite(s): CJ 1350 or FSCI 3400 with a C+ or higher

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 and 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 microtraces and the use of microtrace catalogs.

**FSCI 3880 Expert Witness Professional Practices**
3:3:0 On Sufficient Demand

- Prerequisite(s): CJ 1330 and CJ 2350 each with a C+ or higher

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 4400L Forensic Chemistry Laboratory**
1:0:3 Sp

- Prerequisite(s): MAT 0950 or equivalent
- 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 4400 Forensic Chemistry**
3:3:1 Sp

- Prerequisite(s): CHEM 2320 or FSCI 3400 with a C+ or higher and instructor approval
- 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.

**GEO 1015 Introduction to Geology Laboratory**
1:0:2 Su, F, Sp

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.

**GEO 101H Introduction to Geology**
3:3:0 F, Sp

Introduces the structural and dynamic systems of the earth that create our environment. Stresses geology and related topics chosen for astronomy and meteorology.

**GEO 1020** (Cross-listed with: BIOL 1200)
3:3:0 PP

Prehistoric Life

- 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 F, Sp

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.

**GEO 1080 Introduction to Oceanography**
3:3:0 F, Sp

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.

**GEO 1085 Introduction to Oceanography Laboratory**
1:0:2 F, Sp

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 F

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  
F  
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.

**GEO 202R**
(Cross-listed with: BIOL 202R)
**Science Excursion**
1:0:2  
F, Sp  
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**
3:1:6  
Su  
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 3080**
**Earth Materials**
4:3:3  
F  
• Prerequisite(s): GEO 1010, GEO 1015; CHEM 1210 (or other chemistry course) recommended. Investigates geologically significant rocks and rock-forming minerals. Includes origins, occurrences, and associations of several rocks and minerals. Includes hand sample and microscopic methods of identifying rocks and minerals in the laboratory. Involves field trips, possibly including weekend trips.

**GEO 3200**
**Geologic Hazards**
4:3:2  
F  
• Prerequisite(s): GEO 1010, GEO 1015 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.

**GEO 3400**
**Forensic Geology**
4:3:3  
• Prerequisite(s): CHEM 1210 and CHEM 1215 or higher  
• 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 3700**
**Structure and Tectonics**
4:3:3  
Sp  
• Prerequisite(s): GEO 1010, GEO 1015; MATH 1060 (or other course dealing with trigonometry) recommended. 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.

**GEO 4080**
**Petrology**
4:3:3  
• Prerequisite(s): GEO 3080, CHEM 1220 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 diageneisis of sandstones.

**GEO 4200**
**Teaching Methods in Science**
3:3:0  
Sp  
• Prerequisite(s): Acceptance into Secondary Education program; senior-level 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 425R**
**Geology for Teachers**
1 to 5:1 to 10  
Su, F, Sp  
• Prerequisite(s): GEO 1010 and GEO 1015 Engages students in supervised geological field work. Involves field work for 8 to 10 hours per day, three to five days per week, for four to six weeks.

**GEO 4600**
**Field Experience**
4:0:12  
Su  
• Prerequisite(s): GEO 3080, GEO 3700, and GEO 4500. An intensive field course giving students hands-on experience with several aspects of earth science field work. Involves field work for 8 to 10 hours per day, three to five days per week, for four to six weeks. Requires two weekend field trips (dates will be discussed in class).

**GEO 462R**
(Cross-listed with: ENVT 482R)
**Geologic/Environmental Internship**
1 to 3:0:5 to 15  
• Prerequisite(s): GEO 1010 or ENVT 1110, and 12 credit hours of any GEO, GEOG, or ENVT courses, and declared major in any Earth Science program 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.

**GEO 495R**
**Independent Study**
1 to 4:0:3 to 12  
Su, F, Sp  
• Prerequisite(s): GEO 1010 and GEO 1015 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 four credits.

**GEOG—Geography**

**GEOG 1300**
**Survey of World Geography**
3:3:0  
Su, F, Sp  
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 the causes of modem human migration.
**Course Descriptions**

Emphasis on location, physical environment, culture, resources, and current events.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Hours</th>
<th>Semester</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>GEOG 1400</td>
<td>Introduction to Human Geography</td>
<td>SS</td>
<td>3:3:0</td>
<td>Not 11-12</td>
<td></td>
<td>Examines the theoretical aspects of human activity across the Earth's surface. Discusses the analytical frameworks for understanding the interactions of social, cultural, and economic systems. Topics include population dynamics, international development, human conflicts, and urbanization.</td>
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<tr>
<td>GEOG 2100</td>
<td>Geography of the United States</td>
<td>SS</td>
<td>3:3:0</td>
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<td>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.</td>
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<tr>
<td>GEOG 2200</td>
<td>Geography of Europe</td>
<td>SS</td>
<td>3:3:0</td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>GEOG 2500</td>
<td>Geography of Latin America and the Caribbean</td>
<td>SS</td>
<td>3:3:0</td>
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<td></td>
<td>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.</td>
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<tr>
<td>GEOG 3010</td>
<td>Economic Geography</td>
<td>SS</td>
<td>3:3:0</td>
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<td></td>
<td>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.</td>
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<tr>
<td>GEOG 3110</td>
<td>Urban Geography</td>
<td>SS</td>
<td>3:3:0</td>
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<td>Prerequisite(s): GEOG 1300 preferred</td>
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<tr>
<td>GEOG 3150</td>
<td>Social Geography</td>
<td>SS</td>
<td>3:3:0</td>
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<td>Prerequisite(s): (ENGL 2010 or ENGL 2020) or permission of instructor</td>
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**GER** — **German**

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Hours</th>
<th>Semester</th>
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<th>Description</th>
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<tr>
<td>GER 1110</td>
<td>German Conversation I</td>
<td>LH</td>
<td>4:4:0</td>
<td></td>
<td></td>
<td>Prerequisite(s): Students should have equivalent knowledge of GER 1020</td>
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<tr>
<td>GER 3030</td>
<td>German Composition and Conversation</td>
<td>SS</td>
<td>3:3:0</td>
<td></td>
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<td>Prerequisite(s): GER 202G or equivalent experience</td>
</tr>
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</table>
GER 3050  LH
Advanced German
3:3:0  F, Sp
- 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.

GER 3200  LH
Business German
3:3:0  On Sufficient Demand
- Prerequisite(s): Students need equivalent knowledge of GER 3050
- For those who plan to pursue careers in international business or related fields, learn the business language for German, understand 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. Presentations and class discussions and additional written and reading materials dealing with today’s issues. Will be taught entirely in the German language.

GER 3550  LH
German Culture and Civilization
3:3:0  On Sufficient Demand
- Prerequisite(s): GER 3050 or equivalent experience
- Explores chronologically the cultural formation and development of German-speaking societies and cultures in Germany, Austria, Switzerland, and other German-speaking regions. Students who complete the course should acquire an understanding of the ethnic development and linguistic history of these societies and countries. Presentations and class instruction conducted entirely in German.

GER 380R  LH
Topics in German Studies
3:3:0  On Sufficient Demand
- 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.

GIS—Geographic Information Systems

GIS 2640  LH
Geographic Information Systems and Surveying
2:2:0  Sp
- Prerequisite(s): EGD 2400, GEOG 3630
- 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.

GIS 3640  LH
Thematic Mapping Environmental Impacts
3:3:0  On Sufficient Demand
- Prerequisite(s): GIS 2640
- 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.

GIS 3650  LH
Thematic Mapping Culture and Societies
3:3:0  On Sufficient Demand
- Prerequisite(s): GIS 2640
- 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.

HIST—History

HIST 1500  SS
World History to 1500
3:3:0  F, Sp, Su
- 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 161G  SS
World History from 1500 to the Present
3:3:0  F, Sp, Su
- 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**  AS
American Civilization
3:3:0  F, Sp, Su
- Stresses movements and developing institutions that are important for an appreciation of American History from the Pre-Colombian 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.

HIST 170H  AS
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-Colombian 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 “doing” history.

HIST 1740  SS
US Economic History
3:3:0  F, Sp
- 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  F, Sp
- 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 2700**  AS
US History to 1877
3:3:0  F, Sp, Su
- 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. 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
Course Descriptions

participation in historical debates and the process of

HIST 2710** US History since 1877 3:3:0 F, Sp, Su
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 271H US History since 1877 3:3:0 On Sufficient Demand
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 Nature of History 3:3:0 F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020, HIST 2700 and HIST 2710 and Sophomore status or higher Utilizes a variety of resources to build upon historical research and writing learned in previous history courses, and includes an examination of historiography and the philosophy of history. Expands research skills in primary and secondary sources, critical thinking, historiographic analysis, and comparative history. May select a thesis topic for history thesis writing. May identify an additional instructor to assist their research and writing project. Topics and emphases will vary to include American & non-American themes.

HIST 3020 Introduction to Public History 3:3:0 Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020; HIST 2700 and HIST 2710 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 F
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor 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 3040 Colonial Latin America 3:3:0 F
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. Includes campus and community resources, multi-media, and guest lecturers.

HIST 3050 Modern Latin America 3:3:0 Sp
Introduces the history of Latin America from 1820 to the present. Focuses on the key issues and themes of the last 180 years including social revolution, dependency and foreign intervention, gender and race. Includes case studies from specific countries. Uses campus and community resources, multi-media, and guest lecturers.

HIST 3110 Greek History 3:3:0 F
- Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor 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 F
- Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor 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 Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor 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 On Sufficient Demand
- Prerequisite(s): HIST 1500 or permission of instructor 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 On Sufficient Demand
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor 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 Sp
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor 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 F
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor 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 Sp
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor
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
Modern Britain
3:3:0 Not 11-12
Surveys women's experiences in American culture from the beginnings of European colonization to 1870. Emphasizes ways in which race, ethnicity, and class shaped females' experiences.

HIST 321G
Women in American History since 1870
3:3:0 Sp
- Prerequisite(s): HIST 2700 and HIST 2710 or Instructor approval
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 326G
History of Utah
3:3:0 F, Sp, Su
Surveys the history of Utah and its peoples from prehistoric times to the present. Introduces major themes in Great Basin prehistory and Indian history, Mormon history, territorial and state history, and Utah's role in the development of the West and the nation. Examines writings and research in the areas of art, anthropology, demography, geography, ethnography, folklore, gender, literature, cinematography, photography, popular culture, and religion. Can be used for teacher education and recertification requirements.

HIST 327G
Indians of Utah
3:3:0
- Prerequisite(s): Sophomore 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 in 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 Not 11-12
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor
Surveys major themes in British history from the Glorious Revolution to the end of the 20th century.

HIST 3340
Middle East History--1914-Present
3:3:0 Not 11-12
Surveys the political and socioeconomic history of the Middle East since the First World War. Introduces and discusses various ethnic and religious groups in the region, colonial domination of the region, the rise of nationalist movements for independence, the development of modern states, and economic features of the Arab countries, Israel, Turkey, and Iran.

HIST 345G
The History of World War II
3:3:0 F
- Prerequisite(s): ENGL 2010 or ENGL 2020
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 Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor
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 F
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 lecture, class discussion, audiovisual materials, and guest speakers.

HIST 3530
History of Vietnam
3:3:0 Not 11-12
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 Sp
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
Memory and History
3:3:0 On Sufficient Demand
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+)
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 3610
The Modern History of East Asia
3:3:0 On Sufficient Demand
Analyzes the modern history of China, Japan and Korea, covering the last two centuries. Explores the traditional norms of the East Asian peoples up to the beginning of the nineteenth century. Demonstrates the impact of the modern West and its newly developed technology on East Asia. Presents the responses of those countries to external pressures.

HIST 365G
The History of Modern Russia--1864 to Present
3:3:0 F
- Prerequisite(s): ENGL 2010
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 3730
American Origins to 1790
3:3:0 Not 11-12
- Prerequisite(s): HIST 2700 and HIST 2710, or Instructor approval
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 Not 11-12
- Prerequisite(s): HIST 2700 and HIST 2710, or Instructor approval
Surveys United States social, political, economic, and cultural movements from the era of the New Republic to the beginning of the Progressive Reforms. Examines such topics as the creation of the Republic, Antebellum Reforms, Westward Expansion, the Civil War, Reconstruction, and the Gilded Age.

HIST 3732
United States History 1890-1945
3:3:0 F
- Prerequisite(s): (HIST 2700 and HIST 2710) or Instructor approval
Surveys United States political, cultural, economic, and social movements from Progressivism through WWII. Examines various topics including the Progressive Reforms, WWII, the Great Depression, the New Deals, and WWII.
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HIST 3733  
United States since 1945  
3:3:0  
- Prerequisite(s): HIST 2700 and HIST 2710 or Instructor approval  
Provides an overview of major themes in U.S. history from the end of World War II to the present.

HIST 3800  [Cross-listed with: GEOG 3800]  
Environmental History of the United States  
3:3:0  Not 11-12  
- Prerequisite(s): HIST 1700 or (HIST 2700 and HIST 2710)  
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  
Prewelcanbrian America  
3:3:0  On Sufficient Demand  
- Prerequisite(s): HIST 1700 or HIST 2700 or HIST 2710 or ENGL 1010 or HIST 180G or ANTH 180G  
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.

HIST 382G  
Indians of Eastern North America  
3:3:0  
- Prerequisite(s): Sophomore 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  F  
- Prerequisite(s): HIST 1700 or HIST 2700 or HIST 2710 or HIST 180G/ANTH 180G or ENGL 1010  
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  On Sufficient Demand  
- Prerequisite(s): HIST 1700 or HIST 2700 or HIST 2710 or HIST 180G/ANTH 180G or ENGL 1010  
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  On Sufficient Demand  
- Prerequisite(s): HIST 1700 or HIST 2700 or HIST 2710 or HIST/ANTH 1800 or ENGL 1010  
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  F  
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  Sp  
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  F, Sp  
- Prerequisite(s): HIST 3010 or HIST 3020 or consent of instructor  
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  Sp  
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor  
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  Not 11-12  
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor  
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  Sp  
- Prerequisite(s): ENGL 2010 or ENGL 2020  
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 420R  
Issues and Topics in Global History  
3:3:0  On Sufficient Demand  
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  F  
- Prerequisite(s): Admission to Professional Education Program, and EDSC 4550 or consent of instructor.  
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  On Sufficient Demand  
- Prerequisite(s): HIST 3040 and HIST 3050 or consent of instructor  
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  
SS  
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  
On Sufficient Demand  
- Prerequisite(s): ENGL 2010 or ENGL 2020  
Surveys 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  
On Sufficient Demand  
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor  
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 from previous class.

HIST 4430  
History of Iran--1900 to Present  
3:3:0  
Not 11-12  
Covers the Constitutional Revolution of 1905-1911, the rise of Reza Shah Pahlavi in 1921-1941, the democratic movement under the leadership of Dr. Mossadegh (1949-1953), the CIA coup in August 1953 and the restoration of autocratic rule (1953-1979), the Iranian Revolution of 1979, the rise and consolidation of fundamentalist rule under the leadership of Ayatollah Khomeini, and finally the resistance to fundamentalist rule.

HIST 4600  
Contemporary American Indian Political and Social Issues  
3:3:0  
On Sufficient Demand  
Surveys current research and perspectives on historical and 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, political and cultural issues.

HIST 462G  
History of the American West  
3:3:0  
Sp  
- Prerequisite(s): HIST 2700 and HIST 2710 or consent of instructor  
Surveys American Western History from early European colonization to the present. Emphasizes the diverse experiences of peoples/cultures in the West and the changing boundaries of the West.

HIST 471R  
Special Issues and Topics in American History  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): Junior standing or consent of instructor  
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 from previous class.

HIST 4740  
American Revolution  
3:3:0  
F  
- Prerequisite(s): (HIST 2700 and HIST 2710) or Instructor approval  
Examines origins, progress, and consequences of the American Revolution. Focuses on social effects of the War for Independence, creation of republican governments, the U.S. Constitution. Addresses the search for stability at home and security abroad, and the development of a national identity.

HIST 4750  
Civil War/Reconstruction  
3:3:0  
Sp  
- Prerequisite(s): (HIST 2700 and HIST 2710) or Instructor approval  
Analyzes the painful period of Reconstruction and its historiography.

HIST 482R  
Public History Internship  
2 to 9:1:4 to 32  
On Sufficient Demand  
- Prerequisite(s): HIST 3020  
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.

HIST 490R  
Independent Study  
1 to 4:1 to 40  
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 upper-division level. A maximum of six credits may be applied toward graduation.

HIST 491R  
Directed Readings  
2 to 4:2 to 40  
- Prerequisite(s): HIST 3010 OR HIST 3020; ENG 2010 OR 2020; Instructor permission  
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  
F, Sp  
- Prerequisite(s): HIST 3010 and Senior Standing in History  
Serves as the first half of the capstone experience for History majors. Requires collaboration with one or more instructors in a directed research and writing project. Explores and develops thesis topic in consultation with the instructor. Builds on skills and knowledge gained in earlier courses, using research skills in primary and secondary sources, critical thinking, historiographic analysis, and comparative History.

HIST 4990  
Senior Research Thesis Writing Component  
3:3:0  
F, Sp  
- Prerequisite(s): HIST 4980, and Senior Standing in History  
Provides the capstone experience for History majors. Continues the research project begun in the Senior Research Thesis - Research course. Builds on skills and knowledge, such as identifying and using primary and secondary sources, engaging in critical thinking, analyzing historiographic approaches, and understanding comparative history, gained in earlier courses. Requires a significant research paper to submit to a journal or conference. Includes defending the paper's thesis, method, and conclusion before a committee of at least two faculty members.

HLTH 1100  
Personal Health and Wellness  
2:2:0  
Su, F, Sp  
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.

HLTH 1200  
First Aid  
2:2:0  
Su, F, Sp  
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  
F, Sp  
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  
Sp  
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  
F  
For students planning to major in a health related field. Examines the historical and continuing evolution of health care. Explores work description,
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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 F, Sp
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 F, Sp
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 SS Su, F, Sp

HLTH 2800 (Cross-listed with PSY 2800) Human Sexuality SS Su, F, Sp
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 3:5 to 15 F, Sp
- 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/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 F, Sp
- Prerequisite(s): Sophomore Standing or Instructor Approval
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 F, Sp
- Prerequisite(s): ENGL 1010
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 Culture Ecology and Health 3:3:0 F
- Prerequisite(s): ENGL 1010 and (ANTH 101G or PSY 1010 or SOC 1010)
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.

HLTH 3200 Principles of Community Health 3:3:0 Su, F, Sp
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.

HLTH 3220 Foundations of Health Education 3:3:0 F
- Prerequisite(s): Sophomore Standing or Instructor Approval
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.

HLTH 3240 Womens Health Issues1 3:3:0 Su, F, Sp
- Prerequisite(s): HLTH 1100
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 afflict women. Provides a practical approach to examining and understanding health issues that are unique to women—all ages, races, socioeconomic strata, and cultures.

HLTH 3250 Consumer Health 3:3:0 Su, F, Sp
- Prerequisite(s): HLTH 1100
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.

HLTH 3260 Modifying Health Behavior 3:3:0 Su, F, Sp
- Prerequisite(s): HLTH 1100
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 3300 Health Promotion for Older Adults 3:3:0 F
- Prerequisite(s): HLTH 1100
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 3400 Human Diseases 3:0 Su, F, Sp
- Prerequisite(s): ZOOL 1090 or Instructor Permission and MICR 2060 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 the study of human disease including general principles of disease and major diseases of body systems and organs. Applies genetic, behavioral and environmental issues to the study of human diseases.

HLTH 350G International Health 3:0 F, Sp
- Prerequisite(s): ENGL 1010
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 3600 Social Promotion 3:0 F, Sp
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 3700 Grant Writing 3:0 F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
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 3800 Epidemiology 3:0 Su, F, Sp
- Prerequisite(s): Statistics, 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 3:0 F
- Prerequisite(s): Sophomore Standing or Instructor Approval
For secondary education majors. Emphasizes the role of the teacher as a health educator and team member in providing a healthy school environment.

HLTH 4150 Community Health Program Development and Evaluation 3:0 F, Sp
- Prerequisite(s): HLTH 3200 or Instructor permission, 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 4200 Health Education Teaching Methods 3:0 Sp
- Prerequisite(s): HLTH 4100
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 3:0 F, Sp
- Prerequisite(s): HLTH 3200 or Instructor Permission
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 3:0 Su, Sp
- Prerequisite(s): HLTH 3200
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 3:0 F
- Prerequisite(s): HLTH 3200
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 3:0 Sp
- Prerequisite(s): HLTH 3200
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 3:0 F, Sp
- Prerequisite(s): Statistics required or instructor permission
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 3:0 F, Sp
- Prerequisite(s): Senior Standing and Community Health majors
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 Su, F, Sp
- Prerequisite(s): Completion of Community Health Discipline Core with GPA 2.5
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.
Course Descriptions

HLTH 483R
International Health Education Internship
2 to 6:1 to 25  Su, F, Sp
• Prerequisite(s): Consent of instructor
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.

HLTH 489R
Undergraduate Research
1 to 3:5 to 15  F, Sp
• Prerequisite(s): Permission of the instructor and the department
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 discipline and worthy of communication to a broader audience. May be repeated for a maximum of 3 credits toward graduation.

HLTH 490R
Special Topics in Community Health
1 to 3:1 to 3:0  On Sufficient Demand
• Prerequisite(s): HLTH 3200 or Instructor Permission
Explores and examines special topics related to community health issues and problems. May include community health topics such as AIDS/HIV, West Nile Virus, special drug and sexuality issues, obesity, suicide, teenage pregnancy and terrorism. May be repeated for a maximum of six credits toward graduation.

HM—Hospitality Management

HM 1010
Introduction to Hospitality Industry
3:3:0  F, Sp
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.

HM 1130
Hotel Operations I
3:3:0  F, Sp
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.

HM 1180
Food and Beverage Management
3:3:0  F, Sp
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.

HM 281R
Cooperative Work Experience
2 to 3:1:5 to 40  Su, F, Sp
• Prerequisite(s): Approval of Woodbury 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 institution. 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.

HM 2890
Industrial Work Experience
1 to 3:0:5 to 40  Su, F, Sp
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  On Sufficient Demand
• 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 3 credits.

HM 3020
Hospitality Managerial Accounting
4:4:0  F
• Prerequisite(s): ACC 2010
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.

HM 3050
Country Club Management
3:3:0  On Sufficient Demand
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  Sp
• Prerequisite(s): HM 3020
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.

HM 3200 (Cross-listed with: MGMT 3200)
Global Tourism
3:3:0  F
• Prerequisite(s): MGMT 2200 or ENGL 2010 or ENGL 2020
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  F
• Prerequisite(s): ENGL 2010 or ENGL 2020
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 F
- Prerequisite(s): HM 1130
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.

HM 3640 Food and Beverage Controls
3:3:0 F, Sp
- Prerequisite(s): ACC 2010
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.

HM 3710 Marketing of Hospitality Services
3:3:0 Sp
- Prerequisite(s): MGMT 2200
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.

HM 3750 Hospitality Industry Management
3:3:0 Sp
- Prerequisite(s): HM 3710 and Matriculation into Business Management Bachelor’s Degree Program or Hospitality Management Bachelor’s Degree Program
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.

HM 4550
Cooperative Work Experience
2 to 8:0:10 to 40 Su, F, Sp
- Prerequisite(s): Approval of Woodbury School of Business Career and Corporate Manager
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 institution. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. Three credits may be applied toward a Bachelor of Science degree in Business Management; six credits may be applied to the Hospitality Management degree. Course will be graded credit or no-credit.

HM 482R Internship
2 to 8:0:10 to 40 Su, F, Sp
- Prerequisite(s): Approval of Woodbury School of Business Career and Corporate Manager
For students working towards a Bachelor of Science Degree in Hospitality Management and the Business Management degree with the Hospitality emphasis. Provides a transition from school to work where learned theory is applied to actual practice through a meaningful on-the-job, non-paid experience commensurate with upper-division classroom instruction. Six hours of Internship work experience will be required toward graduation in the Hospitality Management emphasis.

HM 496R 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. Repeatable for up to three credits.

HM 497R Independent Study
1 to 3:1 to 3:0 On Sufficient Demand
- Prerequisite(s): Department Chair Approval
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.

HONR—Honors

HONR 100B Spring Honors Colloquium
0.5 to 3:0 to 3:1 Sp
- Prerequisite(s): Current enrollment in Honors program
For Honors students. Includes cohort-building events and projects that introduce students to honors education and increase their commitment to Honors, UVU, and their communities. Activities may include guest speakers, community and campus service and leadership projects, field trips, films, and discussions.

HONR 2000 Ancient Legacies
3:3:0 Su, F, Sp
- 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 Su, F, Sp
- 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 Su, F
- Prerequisite(s): ENGL 101H and current enrollment in UVU Honors Program or instructor approval
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, 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.
Course Descriptions

HONR 498R
Honors Thesis
3:0:6
- Prerequisite(s): Senior status or permission of Honors Director.
- Co-requisite(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.

HONR 499R
Honors Project
3:0:6
- Prerequisite(s): Senior status or permission of Honors Director.
- Co-requisite(s): Enrollment in Honors Program
For students completing the Honors Program. Provides an opportunity for seniors in the Program to research, design, carry out, and report results of an original project related to their major, supervised by a faculty mentor. Includes independent research and creative endeavor as necessary. Culminates in the preparation of two short written papers, one preparatory to the project and one evaluating or reflecting on the project’s results. Project should be presented publicly, for instance, in a recital, show, portfolio, or other appropriate method in the discipline. May be taken as an extension of research pursued in Honors Thesis 498; may be taken as a substitute for Honors Thesis 498. If a student’s major department requires a comparable course (with, for instance, substantial written component), that course may be substituted, with permission of the Honors Director. May be repeated for a maximum of 6 credits toward graduation.

HUM—HUMANITIES

HUM 101H
Humanities Through the Arts
3:0:6
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 101G
Humanities Through the Arts
3:0:6
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.

HUM 1010**
World History Through the Arts I
3:0:6
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 1011
World History Through the Arts II
3:0:6
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 102H
World History Through the Arts II
3:0:6
The second of a two-part series which examines world civilizations through the arts. 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.

HUM 203G
Art Form Focus I
3:0:6
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
3:0:6
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 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 2100
Adventures of Ideas Through 1500
3:0:6
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 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.
HUM 210H  
Adventures of Ideas Through 1500  
3:3:0  
- 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, philosophial, 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 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  
3:3:0  
Studies great written or visual texts in the Eastern or Western history of ideas--artistic, literary, philosophial, 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  
3:3:0  
- 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, philosophial, 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  
6:6:0  
- 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  
6:6:0  
- 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  
2 to 9:1:5 to 40  
- 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.

HUM 290R  
Independent Study  
1 to 3: 0 to 3:0 to 12  
- Prerequisite(s): Approval of Cooperative Coordinator  
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  
1 to 3: 0 to 3:0 to 12  
- Prerequisite(s): Approval of Cooperative Coordinator  
Provides an opportunity for second year students to do in-depth research within the Humanities. Study is limited to advanced work beyond which can be completed in existing, available classes. A proposal must be submitted and approved by the department prior to enrollment.

HUM 3060  
(Virtual Rhetoric)  
3:3:0  
- Prerequisite(s): ENGL 2010 or ENGL 2020  
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  
1 to 3:1 to 3:0  
- Prerequisite(s): ENGL 1010  
Studies varying topics such as a theme (e.g., death or story-telling), 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  
3:3:0  
- Prerequisite(s): ENGL 1010 and one of the following: HUM 101G, HUM 101H, HUM 101G, HUM 201G, HUM 201H, HUM 202G, HUM 202H, HUM 202G

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  
3:3:0  
- Prerequisite(s): ENGL 1010 and one of the following: HUM 101G, HUM 101H, HUM 101G, HUM 201G, HUM 201H, HUM 202G, HUM 202H, HUM 202G

Studies a particular period within the humanities (such as the medieval world, Romanticism, or Modernism). Involves study of more than one art form (e.g., music, art, and literature) or discipline (such as literature and philosophy) from the chosen period. Topics vary. Repeatable, with different topics, toward graduation.

HUM 3500  
Approaches to Humanities  
3:3:0  
- Prerequisite(s): (HUM 2010 or HUM 201G or HUM 201H or HUM 202G or HUM 202G or HUM 202G) and (ENGL 1010 or ENGL 2020)

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 immediately to demonstrate a certain creative practice.

HUM 3800  
(Virtual Visiting Scholar)  
3:3:0  
- Prerequisite(s): PHIL 2050 or PHIL 205H or PHIL 205G and HUM 1010 or HUM 101G or HUM 101H

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.
A heating, ventilation, and air conditioning course for HVAC 110 and return throughout the history of human creativity. Innovation, continuity, and change, and departure from traditional ideas, offer an intellectual, aesthetic, and cultural experience. Drama, composition, or performance, across all art forms and genres, explores the dynamic range of human expression, from the most fundamental to the most recent currents within intellectual history.

HUM 4010
Forms and Genres Across the Arts
3:3:0
- Prerequisite(s): HUM 201G or HUM 205G or HUM 2010 and (ENGL 201G or ENGL 205G) or (PHIL 205G or PHIL 201G)
- Pre-or Corequisite(s): HUM 3500 or HUM 3800
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 humanist or posthumanist aspects of a single time period, culture, or interdisciplinary oeuvre. Offers an opportunity to advanced students to synthesize, critique, and strengthen their own viewpoints, and to expand their interdisciplinary understanding of human expression, in response to the most fundamental or recent currents within intellectual history.

HUM 4020
Philosophy Through Literature
3:3:0
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
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 4000
Humanism and Posthumanism
3:3:0
- Prerequisite(s): (HUM 2010 or HUM 201G or HUM 2020 or HUM 202G) and (ENGL 201G or ENGL 202G) and (PHIL 205G or PHIL 201G or PHIL 205H)
- Pre-or Corequisite(s): HUM 3500 or HUM 3800
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 humanist or posthumanist aspects of a single time period, culture, or interdisciplinary oeuvre. Offers an opportunity to advanced students to synthesize, critique, and strengthen their own viewpoints, and to expand their interdisciplinary understanding of human expression, in response to the most fundamental or recent currents within intellectual history.

HVAC 1110
Industrial Maintenance 4D
5:5:0
- Prerequisite(s): Departmental written approval
A heating ventilation air-conditioning course for Industrial Maintenance apprentices. Teaches processes and skills to troubleshoot and repair room and cab air-conditioning.

HVAC 1110
HVAC 1B
5:5:0
- Prerequisite(s): HVAC 1200
For HVAC apprentices. Covers Rocky Mountain Gas Association certification. Teaches properties of natural gas, appliance installation, heat loss calculation, equipment sizing, and duct design. Completers should be prepared to complete the RMGA certification test.

HVAC 1115
HVAC 2B
5:5:0
- Prerequisite(s): HVAC 1220
For HVAC apprentices and students interested in exploring the HVAC industry. Provides advanced sheet metal practices, duct size and airflow; joining methods, duct mate, cleats, lock, vibration isolators; field measures (field, residential and commercial); and old timers tricks-of-the-trade. Studies air movement, blowers, fans, ventilation systems and drafts, duct systems, dampers, returns, filters, air flow calculations and system balancing.

HVAC 1140
HVAC 2A
5:5:0
- Prerequisite(s): HVAC 2200
For HVAC apprentices. Covers piping and welding procedures, gas welding fundamentals, safety and techniques, arc welding; installation practices, equipment room layout, controls and electric equipment location, rigging, vibration elimination and sound controls. Teaches start-up and servicing controls, compressor motor, condenser, cooling tower, metering devices, chillers, water balancing, hydraulics, fan coil unit and heat pumps.

HVAC 1170
HVAC 3B
5:5:0
- Prerequisite(s): HVAC 2200
For HVAC apprentices. Covers piping and welding procedures, gas welding fundamentals, safety and techniques, arc welding; installation practices, equipment room layout, controls and electric equipment location, rigging, vibration elimination and sound controls. Teaches start-up and servicing controls, compressor motor, condenser, cooling tower, metering devices, chillers, water balancing, hydraulics, fan coil unit and heat pumps.

HVAC 1190
HVAC 4B
5:5:0
- Prerequisite(s): HVAC 2220
For HVAC apprentices. Teaches properties of natural gas, natural gas distribution systems, gas piping systems, combustion air, venting, appliance installation, heat loss calculation, equipment sizing and selection, and duct design. Successful completers should be prepared to complete the RMGA certification testing.

HVAC 1200
HVAC 1A
5:5:0
For heating, ventilation, and air conditioning apprentices. Teaches gas properties, gas piping, combustion air and principles of heating. Covers safety and codes, venting, sheet metal tools and safety, basic metals and fittings.

HVAC 1200
HVAC 2A
5:5:0
- Prerequisite(s): Departmental written approval
For heating, ventilation, and air conditioning apprentices. Teaches concepts of heat, heat loss, heat load calculation, cooling load calculation, ducted warm air systems and room air distribution. Covers duct sizing and layout, air conditioners, electrical safety and fundamentals of magnetism. Teaches power supplies, direct current, resistors and resistance, inductors and inductance.
INFO 1000 Computer Programming Concepts 3:3:0 • Not 11-12
- Prerequisite(s): (MAT 0990 or higher) and [(INFO 1100 with a grade of C- or better) or (Computer Literacy Exam with a score of 70% or higher)]
Helps students gain confidence in logical thinking and expression. Teaches students to read and write in a formal language, learn how to communicate complex ideas simply, decompose problems logically, and gain an appreciation of elegance in program design.

INFO 1100 Exploring the Digital Domain 3:3:0 F, Sp, Su
Examines the digital domain and how it affects every part of our society—home, work, education, and recreation. Studies why computing technology works the way it does. Helps students realize how important it is to learn the basic concepts and skills required for working and living in an information world. Explores how a variety of businesses and individuals use information systems for success. Also provides hands-on experience with a variety of desktop, multimedia, and Internet tools.

INFO 1120 Information Systems and Technology Fundamentals 3:3:0 F, Sp
- Prerequisite(s): (INFO 1100 with a grade of C- or better) or (Computer Literacy Exam with a score of 70% or higher)
Examines 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.

INFO 1200 Computer Programming I for IS/IT 3:3:0 F, Sp
- Prerequisite(s): INFO 1120, MAT 1010 or higher, programming aptitude test or INFO 1000
Explores the fundamental concepts of modern computer programming. Emphasizes problem-solving and algorithm development; program constructs and design; data representation, fundamental types and data structures; and, testing, debugging, and documentation. Introduces object-oriented, event-driven, and component-based programming models.

INFO 2030 Data Communication Fundamentals 3:3:0 F, Sp
- Prerequisite(s): INFO 1120 or INFO 1200 or IT 1510 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.

INFO 2050 Database Fundamentals 3:3:0 F, Sp
- Prerequisite(s): INFO 1200
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.

INFO 2100 Business Computer Productivity with IS Technology 3:3:0 • Not 11-12
- Prerequisite(s): Computer Literacy or INFO 1100
For Information Systems and Technology students. Provides opportunities for students with basic computer literacy to enhance their personal productivity and problem-solving skills. Teaches students to apply information technologies to problem situations and to design and use small information systems for individuals and groups.

INFO 2200 Computer Programming II for IS/IT 3:3:0 F, Sp, Su
- Prerequisite(s): INFO 1200, MATH 1050 or higher, or Departmental Approval
Continues the object-oriented, event-driven, and component-based programming fundamentals introduced in Computer Programming I for IS/IT. Topics include advanced graphical user interface (GUI) development and multimedia; file I/O, serialization, database connectivity and exception handling; collections, advanced data structures, sorting, searching and recursive algorithms; threading and network programming; and, application packaging and deployment. Introduces unit testing frameworks, refactoring, and design patterns.

INFO 2230 Data and Discrete Structures 3:3:0 • Not 11-12
- Prerequisite(s): INFO 1200
Explores data structures, algorithm analysis, and discrete mathematics using an integrated approach. Includes induction and recursion, time and space complexity, and big-O notation, propositional logic, proof techniques, sorting, and mathematical properties of data structures including linked lists.

INFO 2450 Web Application Design 3:3:0 F, Sp, Su
- Prerequisite(s): Computer Literacy or INFO 1120 or INFO 1200 or IT 1600 or COMP 1000
Focuses on the design and construction of WWW Pages and maintenance of Web Sites in a multi-platform environment. Includes the current HTML and XHTML standards and their latest enhancements. Covers design concepts, page layout, and accessibility issues. Covers HTML/XHTML in depth, as well as site management concepts, and current-generation design concepts. Teaches use of WYSIWYG Web authoring tools for code development and graphics. Requires individual projects.

INFO 2490 Computer Help Desk Consulting 3:1:6 On Sufficient Demand
- Prerequisite(s): INFO 1120
Provides knowledge base and skills necessary to become a help desk consultant. Includes function of help desk, role of help desk personnel, tutoring and small group instruction models, hardware and software diagnostics, problem resolution tracking, and customer-oriented service approach. Requires a course project and significant in-lab experience.

INFO 281R Internship 1 to 8:0:5 to 40
- 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.

INFO 297R Independent Study 1 to 3:0 to 9
- 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.

INFO 3120 Principles of Information Systems—A Managerial Approach 3:3:0 F, Sp, Su
- Prerequisite(s): (MGMT 2200 or ENGL 2010 or ENGL 2020) and (Computer Proficiency or INFO 2100 or DGM 2100) or departmental approval
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.

INFO 3410 Database Systems 3:3:0 F, Sp
- Prerequisite(s): INFO 2050
Presents concepts and methods of defining, creating, and managing database systems. Includes information, transaction processing and security issues, performance analysis, and a survey of emerging technologies in database management. Develops complex database designs and implements them using commercial database products. Studies the application of data warehousing/data mining tools in performing data analysis for decision making.

INFO 3420 Web Systems Development I 3:3:0 F, Sp
- Prerequisite(s): INFO 2450 and INFO 3410
Provides an introduction to e-business strategy and the development and architecture of e-business
solutions and their components using a modern, object-oriented, Web-based application framework which will allow interaction between any machine, on any platform, and on any device. Teaches how to implement security with authentication, transport and display data on the Internet or an Intranet, integrate important e-commerce issues, and deploy an e-business solution.

INFO 3422 Open Source Internet Application Development 3:3:0 Sp
- Prerequisite(s): INFO 1200, INFO 2450
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.

INFO 3430 Systems Analysis and Design 3:3:0 F, Sp
- Prerequisite(s): INFO 2050, and (INFO 2450 or DGM 2120), and (MGMT 2200 or ENGL 2010 or ENGL 2020); 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.

INFO 3440 Enterprise Development 3:3:0 Not 11-12
- Prerequisite(s): INFO 3410
Presents concepts and methods of defining, creating, and managing database systems using Oracle database technology. Includes information and transaction processing, security and integrity issues, and performance analysis. Incorporates design and implementation of complex databases supporting data driven applications. Also includes the study of distributed databases and the application of data warehousing/data mining tools in performing data analysis for decision making. Includes coverage of PL/SQL, Oracle Forms and Oracle Reports.

INFO 3700 Health Informatics Fundamentals 3:3:0 Not 11-12
- Prerequisite(s): HLTH 1300, INFO 2050
Introduces the concepts and practices of health informatics. Includes survey of current use of information technology in the clinical and management practice of health care, and basic terminology, strategies, and utilization of IT as a key component in the delivery of patient care. Covers an in-depth analysis of health information standards and classification systems, including the attributes and benefits of computer-based patient records.

INFO 3750 Healthcare Information Systems Applications 3:3:0 Not 11-12
- Prerequisite(s): INFO 3700
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.

INFO 405G Global Ethical and Professional Perspectives in IS and IT 3:3:0 F, Sp
- Prerequisite(s): INFO 3120 or INFO 3430
Examines professional and ethical issues that arise within technological organizations with a global perspective. Global issues of enterprise architecture. Explores issues of enterprise architecture with a focus on applications and infrastructure and their fit with the organization. Teaches frameworks and strategies for infrastructure management, system administration, content management, distributed computing, middleware, legacy system integration, system consolidation, software selection, total cost of ownership calculation, IT investment analysis, and emerging technologies. Addresses topics both within and beyond the organization, with attention paid to the global perspective.

INFO 4120 Business Intelligence Systems 3:3:0 F, Sp
- Prerequisite(s): INFO 3120
Focuses on extracting business intelligence from large data sets for various applications including customer segmentation, market segmentation and customer relationship management (CRM) to aid decision-making processes. Provides “hands-on” experience with a variety of decision support 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.

INFO 4130 Advanced Business Intelligence Systems 3:3:0 Not 11-12
- Prerequisite(s): INFO 4120
Capstone course extends the concepts of BI to the analysis of large data-sets, and preparation of analysis reports and presentations describing implications of findings. Extends the BI process to include predictive modeling, model assessment, scoring and implementation. Applies business process analysis and design, quality control and improvement, and performance monitoring through performance dashboards, balanced scorecards, and process simulation.

INFO 4410 Database Administration 3:3:0 F
- Prerequisite(s): INFO 3410 or INFO 3440
Presents the concepts and methods used to manage and maintain relational databases. Covers topics such as the effects on performance of application and database design, performance monitoring and management, approaches to tuning, storage management, backup and recovery and disaster planning. Discusses methods to accomplish administrative and maintenance tasks for organizations requiring uninterrupted operation. Utilizes a vendor neutral perspective; however, hands-on assignments provide students with opportunities to apply the knowledge gained in the course to one or more popular commercial database management systems.

INFO 4420 Web Systems Development II 3:3:0 Not 11-12
- Prerequisite(s): INFO 3420
Utilizes advanced enabling technologies for the design and development of enterprise-wide, Internet-based systems. Topics include Web Services, XML, and Service-Oriented Architectures (SOA).

INFO 4430 Systems Design and Implementation 3:3:0 Sp, Su
- Prerequisite(s): INFO 3430 and INFO 3420; INFO 3410 recommended
Continuation of INFO 3430. Focuses on the design and implementation phases of the system development life cycle using a systematic approach and effective project management techniques. Focuses on computer and human interface design determined during the systems analysis phase. Requires that students work in teams to complete and present a working system of a project for a client.

INFO 4440 Enterprise Computing Environments 3:3:0 On Sufficient Demand
- Prerequisite(s): (INFO 3430 or MGMT 4450) and [(ACC 2010 and ACC 2020) or ACC 3000]
Examines the use of enterprise resource planning (ERP) systems and workflow technologies for managing information across an organization, its suppliers and its customers. Studies approaches to analyzing and designing business processes. Helps decision makers select the appropriate software to improve business processes in diverse organizations. Addresses hardware and network requirements for implementing ERP systems. Develops a simple prototype enterprise system complete with workflow automation using a popular ERP system.

INFO 4550 Senior Project 3:3:0 F, Sp
- Prerequisite(s): INFO 3430
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.
INFO 459R
Current Topics in Information Systems and Technology
3:3:0 F
- Prerequisite(s): Junior Standing or Department Approval
- Provides exposure to emerging technologies and topics of current interest in information systems and technology. Varies each semester depending upon the state of technology. May be repeated for a maximum of 15 credits toward graduation.

INFO 4700
Healthcare Information Systems Management
3:3:0 Not 11-12
- Prerequisite(s): INFO 3120, INFO 3700
- Overview 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 IT goals and objectives, designs and implements IT solutions, manages the IT function and organization, and develops IT 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.

INFO 481R
Internship
1 to 8:0:5 to 40
- Prerequisite(s): (INFO 3430 or IT 3510 or IT 3530) and Department Approval
- For 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. A maximum of 16 credits may be applied toward graduation without prior written IS&T Department approval. Graded credit/No-credit.

INFO 489R
Undergraduate Research in Information Systems & Technology
1 to 4:0:5 to 20
- Prerequisite(s): Department approval
- 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 and Information Technology disciplines 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
- Prerequisite(s): Department chair approval
- 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.

IS—INTEGRATED STUDIES

IS 300R
Introductory Topics in Integrated Studies
3:3:0
- Prerequisite(s): PHIL 2050
A first course in interdisciplinary approaches and research methods. 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.

IS 350R
Topics in Integrated Studies
3:3:0
- Prerequisite(s): IS 300R
Advanced course in interdisciplinary approaches and research methods. Examines a particular interdisciplinary topic; topics vary from semester to semester. Presents topics that cross one or more fields of academic specialty from the arts and sciences. Includes lecture, reading, discussion and research. Research and writing intensive, requires final research paper. May be repeated for a maximum of 12 credits toward graduation.

IS 495R
Interdisciplinary Lecture Series
0.5:0.5:0 Not 11-12
- Explores connections between various academic disciplines. Provides a broadly based look at a range of disciplines. May be repeated once for a total of one hour of credit.

IS 4980
Integrated Studies Capstone I
3:3:0
- Prerequisite(s): IS 300R
First semester in the two-semester capstone sequence. Focuses on a major research paper integrating the student’s two emphases. Addresses theoretical and practical problems associated with research and writing that combine disciplines. Includes work with a committee throughout the semester.

IS 4990
Integrated Studies Capstone II
3:3:0
- Prerequisite(s): IS 350R and IS 4980
For students completing the baccalaureate IS experience. Focuses on a major research paper integrating the student’s two emphases. Addresses theoretical and practical problems associated with research and writing that combine disciplines. Includes work with a committee throughout the semester, which must approve the written thesis. Requires the student to orally present the thesis in a formal defense.

IT—INFORMATION TECHNOLOGY

IT 1510
Introduction to System Administration—Linux/UNIX
3:3:0 Su, F, Sp
- 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 paging virtual memory. Includes OS installation, user creation, rights management, loading daemons, and server best practices.

IT 1600
Computer Architecture and Systems Software
3:3:0 F Sp
- 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.

IT 2400
Voice and Data Cabling Fundamentals
3:3:0 F
- Prerequisite(s): INFO 1000 or INFO 1100 or INFO 1120 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.

IT 2459
Router Management
3:3:0 On Sufficient Demand
- Prerequisite(s): INFO 2030 or CS 2600
Introduces configuration and management of Cisco routers. Includes networking basics, Ethernet switching, router hardware basics, IP routing theory, router commands, VLANs, access lists, security and WAN link configuration.

IT 2530
System Administration—Windows
3:3:0
- Prerequisite(s): INFO 2030 or CS 2600
Introduces operation management of Operating Systems using Microsoft Windows. Introduces file system, Windows administration, OS utilities, and program features and uses. Aids the student in the development, understanding, and working knowledge of the details of the Operating System memory organization, disk architectures, peer-to-peer, workgroups, user profiles, domains, and share-level permissions. Includes OS installation, user
creation, rights management, loading background processes, and server best practices.

**IT 2700 Information Security Fundamentals 3:3:0**
- Prerequisite(s): INFO 2030 or CS 2600
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.

**IT 2800 Computer Forensic Fundamentals 3:3:0**
- Prerequisite(s): INFO 2030 or CS 2600 or CJ 1010
Examines 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.

**IT 3510 Advanced System Administration--Linux/UNIX 3:3:0**
- Prerequisite(s): IT 1510, (CS 2600 or INFO 2030)
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.

**IT 3530 Advanced System Administration--Windows Server 3:3:0**
- Prerequisite(s): IT 2530
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. Requires a project and presentation based on advanced server management skills.

**IT 3540 Mac OS and Server Support 3:3:0**
- Prerequisite(s): IT 1510 and (CS 2600 or INFO 2030)
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.

**IT 3600 Networks and Internetworking 3:3:0**
- Prerequisite(s): INFO 2030 or CS 2600
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.

**IT 3700 Information Security--Network Defense and Countermeasures 3:3:0**
- Prerequisite(s): IT 2700
Examines the tools, techniques and technologies used in the technical securing of information assets. Provides in-depth information on the software and hardware components of Information Security and Assurance. Includes firewall configurations, hardening Unix and Windows servers, Web and distributed systems security, and specific implementation of security models and architectures.

**IT 4000 Enterprise Network Architectures and Administration 3:3:0**
- Prerequisite(s): IT 3540, IT 3600, IT 3700
Addresses the problems associated with providing a secure, stable, reliable enterprise network infrastructure. Covers principles of IT enterprise infrastructure management, including platform choices, functionality, cost, security, deployment, controls, flexibility, and adaptability. Topics include Directory Services, QoS, Security, Network Management, Voice over IP (VOIP) and IP Telephony, Content and Storage Networking, Wireless Networking, and fine-tuning of Routing Protocols, Switching Structures, and IP Multicast.

**IT 4700 Secure Server Administration 3:3:0**
- Prerequisite(s): IT 3510, IT 3540, IT 3600, IT 3700
Studies the latest techniques used to secure servers from outside attacks. Teaches students how to scan, test, hack and secure their own systems. Contains several hands-on intensive labs designed to give students practical experience with current essential security systems. Teaches students how perimeter defenses work and how to monitor their own system. Includes how intruders escalate privileges and what steps can be taken to secure a system. Examines Intrusion Detection Systems (IDS), policy creation, Social engineering, DDoS attacks, buffer overflows and virus creation.

**IT 4750 Network Security and Operations Capstone 3:3:0**
- Prerequisite(s): IT 3600 and INFO 3700
Designed to give all networking professionals a better understanding of how the networking function is managed, the roles that various professionals play, and the key issues involved in coordinating and monitoring networking activities. Examines what network managers do and how they do it, specifically -- operations, financial, risk, and business continuity management. Examines the fit between network systems and corporate strategy. Includes the procurement process; the use of Service Level Agreement for managing both external and internal services; the application of financial analysis and decision-making approaches to aid network investment decisions at the operational, project, tactical and strategic levels and manage capital budgets, acquisition of hardware, personnel, and professional services at project and system levels; network project risk assessment-management-contingency planning; business continuity and disaster recovery strategies and management.

**JPNS—Japanese**

**JPNS 1010 Beginning Japanese I 4:4:1**
- F
Writing and reading Hiragana and Katakana, listening, speaking in the basic grammar structure, expressing opinions and describing things in a limited situation.

**JPNS 1020 Beginning Japanese II 4:4:1**
- Sp
Reviews and builds further language skills upon the grammar, reading, writing, and conversation skills learned in the first year courses.

**JPNS 1500 The Art of Japanese Calligraphy 2:2:0**
- F, Sp
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 1010 Intermediate Japanese I**

4:4:1

- 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.

**JPNS 202G Intermediate Japanese II**

4:4:1

- 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, 1020, and 2010. Introduces reading of a variety of texts in Japanese.

**JPNS 211R Conversational Japanese**

2:2:1

- 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 2010 or JPNS 202G.

**JPNS 3050 Advanced Japanese**

3:3:0

- 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. Overview Japanese culture and introduces Japanese literature.

**JPNS 3200 Business Japanese**

3:3:0

- Prerequisite(s): JPNS 3050

**JPNS 3520 Society and Business in Japan**

3:3:0

- Prerequisite(s): JPNS 3050
- 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 refers to Japan's national and global economic involvement and ways students can interface with it.

**LANG—LANGUAGES**

**LANG 1000 English Literacy for Deaf Students**

5:5:0

- 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 Language Internship**

1 to 8:0:5 to 40

- Prerequisite(s): Departmental 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.

**LANG 291R Independent Study**

1 to 3:1 to 3:0

- Prerequisite(s): Departmental Approval
- 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.

**LATN—LATIN**

**LATN 1010 Beginning Latin I**

4:4:0

- 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 1020 Beginning Latin II**

4:4:0

- Prerequisite(s): LATN 1010 or equivalent.
- Allows students the opportunity to continue to study Latin at the introductory level. Focuses primarily on Ancient Latin. Develops more advanced Latin reading skills, with the help of grammar and translation exercises. Study of Latin profoundly strengthens students’ general understanding of grammar, syntax, and word formation in any language, particularly Romance and Germanic languages (including English).
Course Descriptions

**LEGL—Legal Studies**

**LEGL 1000  Introduction to American Law  3:3:0  SS, F, Sp**
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.

**LEGL 1010  Survey of Law  3:3:0  On Sufficient Demand**
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.

**LEGL 1110  Civil Litigation  4:4:0  F, Sp**
- Prerequisite(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.

**LEGL 1220  Legal Research I  3:3:0  F, Sp**
- Prerequisite(s): ENGL 1010, LEGL 1000
Familiarizes students with the law library. Provides instruction in the variety, use, and interrelationships of basic legal research materials and methodology. Emphasizes manual legal research methods. Uses primary and secondary legal research sources.

**LEGL 1330  Criminal Law and Procedure  3:3:0**
- Prerequisite(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 2000  Culture of Law  2:2:0  F**
Survey course that discusses the impact of earning a law degree; professional options open to a JD; and how to manage one’s career; through lectures on pertinent issues, opportunities to interview lawyers, by film, speakers sharing their experience about different aspects of their career, opportunities to read and write on legal issues.

**LEGL 2300  Legal Research II  3:3:0  F, Sp**
- Prerequisite(s): LEGL 1220, DGM 2010
Covers legal analysis, a research plan development and database, computerized legal research, and legal writing. Includes case briefing and writing internal and external court legal memoranda.

**LEGL 2330  Technology in Law Practice  3:3:0  F, Sp**
- Prerequisite(s): LEGL 1010, DGM 2010
Introduces computer technology and its application within law practice. Teaches the use of computers in litigation support, case management applications and production of legal documents. Includes lab experience using computers and simulated case problems. Completers should be qualified to work in jobs requiring case management and automated litigation support.

**LEGL 2350  Evidence  3:3:0**
- Prerequisite(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 258R  Special Topics in Legal Studies  3:3:0**
- Prerequisite(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  Su, F, Sp**
- Prerequisite(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.

**LEGL 2830  Legal Studies Capstone  3:3:0**
- Prerequisite(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  Law Society  1:1:3  F, Sp**
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 3000  Business Law  3:3:0  Su, F, Sp**
- Prerequisite(s): ENGL 1010
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.

**LEGL 3020  Intellectual Property and Cyber Law  3:3:0  On Sufficient Demand**
- Prerequisite(s): (ENGL 2010 or ENGL 2020) and (LEGL 1000 or CS 1030)
Focuses on trademarks, copyrights, patents, and unfair competition, and examines legal requirements to create, register and protect intellectual property rights. Examines domestic and international trends in this developing legal area. Teaches legislation and case law concerning technology, professional responsibilities, risks, and liabilities. Discusses intellectual property rights and responsibilities pertaining to technology.

**LEGL 3100  Hospitality Law  3:3:0  F**
- Prerequisite(s): ENGL 2010 or ENGL 2020
Teaches rights and responsibilities that the law grants to or imposes upon 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.

**LEGL 3130  Real Estate Principles and Finance  3:3:0  On Sufficient Demand**
- Prerequisite(s): ENGL 1010 or equivalent
Partially fulfills education requirement for the Utah State Real Estate Sales Examination. Includes the nature of real property, estates in land, transfer of real property rights, encumbrances, public restrictions, and contracts. Discusses ownership in real estate (at least 12 hours), settlement (at least 8 hours), federal taxation (at least 2 hours), real estate finance (at least 16 hours), math in real estate applications (at least 4 hours), and real estate valuation and appraisal (at least 6 hours). Includes lectures, guest speakers, class discussions and videos. LEGL 3130, 3140, and 3170 are required to take the exam for real estate sales agent licensure.
in Utah.

**LEG 3140**  
Real Estate Law  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): ENGL 1010 or equivalent.  
Partially fulfills education requirement for the Utah State Real Estate Sales Examination. Includes property management (at least 4 hours), new construction (at least 2 hours), federal law (at least 6 hours), and Utah law (at least 24 hours), and Utah licensing testing and review (at least 8 hours). Includes lectures, guest speakers, class discussions, and videos. LEGL 3130, 3140, and 3170 are required to take the exam for real estate sales agent licensure in Utah.

**LEG 3150**  
Survey of Dispute Resolution  
3:3:0  
- Prerequisite(s): LEGL 1000 or ENGL 2010 or equivalent.  
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.

**LEG 3160**  
Health Care Law  
3:3:0  
- Prerequisite(s): HLTH 3200 or LEGL 1000  
Impact of laws, regulations, social policies on management and delivery of health care. Provider liability, managed health care contracts, HIV-related concerns, assisted suicide, other issues.

**LEG 3170**  
Real Estate Contracts and Agency  
2:2:0  
- Prerequisite(s): ENGL 1010 or equivalent.  
Fulfills the final education requirement required to take the Utah State Real Estate Sales Examination. Includes real estate contracts (at least 16 hours instruction) and agency (at least 12 hours instruction) principles, the Utah standard Real Estate Purchase Contract, and other related issues. Includes lectures, class discussions and videos. LEGL 3130, 3140, and 3170 are required to take the exam for real estate sales agent licensure in Utah.

**LEG 3190**  
Legal Environment  
3:3:0  
- Pre- 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 successfully locating, applying for, securing employment, and advancing in the legal profession.

**LEG 3210**  
Interviewing and Investigations  
3:3:0  
- Prerequisite(s): LEGL 1110  
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.

**LEG 3250**  
Introduction to Law and Politics  
3:3:0  
- Prerequisite(s): POLS 1010 or Instructor Approval  
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.

**LEG 3320**  
Family Law  
3:3:0  
- Prerequisite(s): LEGL 1000 or ENGL 1010 or ENGL 2010  
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 preparation in domestic cases.

**LEG 3340**  
Boundary Law  
3:3:0  
- Prerequisite(s): SURV 2310, SURV 2320  
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 locating an existing boundaries.

**LEG 3410**  
Mediation and Negotiation  
3:3:0  
- Prerequisite(s): LEGL 1000  
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.

**LEG 3530**  
Employment and Labor Law  
3:3:0  
- Prerequisite(s): ENGL 2010 or ENGL 2020  
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.

**LEG 3560**  
Tort Law  
3:3:0  
- Prerequisite(s): LEGL 1000, ENGL 2010 or ENGL 2020  
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.

**LEG 3760**  
Law Practice Management  
3:3:0  
- Prerequisite(s): Matriculation into any Legal Studies Program  
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.

**LEG 3890**  
Certified Legal Assistant Preparation  
3:3:0  
- Prerequisite(s): LEGL 2300 and ENGL 2010 or ENGL 2020  
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.

**LEG 4000**  
Advanced Business Law and E-Commerce  
3:3:0  
- Prerequisite(s): LEGL 3000  
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.

**LEG 4100**  
Advanced Mediation  
3:3:0  
- Prerequisite(s): LEGL 3410  
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.
Course Descriptions

LEGL 4130  Bankruptcy and Collections  
3:3:0  Sp  
- Prerequisite(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.

LEGL 4150  Wills Trusts and Probate  
3:3:0  F  
- Prerequisite(s): Matriculation into any Woodbury School of Business program  
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.

LEGL 4160  Contract Law  
3:3:0  Sp  
- Prerequisite(s): LEGL 3000 and (ENGL 2010 or ENGL 2020)  
Provides a functional approach to the Law of Contracts. Teaches contract problems and defenses through case study method.

LEGL 4190  International Law  
3:3:0  
- Prerequisite(s): ENGL 2010 or ENGL 2020  
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  
- Prerequisite(s): Matriculation into any Legal Studies major  
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  F  
- Prerequisite(s): LEGL 3410 or instructor approval  
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  
- Prerequisite(s): (ENGL 2010 or ENGL 2020) and Junior 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  
- Prerequisite(s): SURV 2360, SURV 3340  
Focuses on researching the total 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. Reviews research techniques and sources including county surveyor’s offices and other governmental agencies. 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  
- Prerequisite(s): LEGL 3000  
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  
3:3:0  On Sufficient Demand  
- Prerequisite(s): ACC 2010 and ACC 2020  
Introduces accounting and business students to the seriousness of fraud and its impact on business and society. Examines the elements of fraud, detection, prevention, and resolution.

LEGL 481R  Internship  
1 to 8:0:5 to 40  F, Sp, Su  
- Prerequisite(s): Approval from School of Business Career and Corporate Manager  
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.

LEGL 4830  Legal Studies Capstone  
3:3:0  
- Prerequisite(s): LEGL 1110, LEGL 2300, LEGL 3000  
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) and LEGL 2300 and Department Approval  
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.

LINE—Lineman Technology

LINE 1010  Lineman Apprentice 1A  
6:6:0  F, Sp  
- Prerequisite(s): Departmental written approval  
For lineman training technology apprentices. Introduces transmission and distribution systems, transmission and distribution. Teaches safety, climbing, overhead distribution systems, tools and service installation.

LINE 1020  Lineman Apprentice 1B  
6:6:0  F, Sp  
- Prerequisite(s): Departmental written approval  
For lineman training technology apprentices. Introduces transmission and distribution systems, transmission and distribution. Teaches safety, climbing, overhead distribution systems, tools and service installation.

LINE 1030  Lineman Apprentice 2A  
6:6:0  F, Sp  
- Prerequisite(s): Departmental written approval  
For lineman training technology apprentices. Introduces line equipment, tree trimming, hydraulic derricks and digging equipment. Teaches DC fundamentals, pole top equipment and replacement.

LINE 1040  Lineman Apprentice 2B  
6:6:0  F, Sp  
- Prerequisite(s): Departmental written approval  
For lineman training technology apprentices. Introduces line equipment, transformers, safety and distribution. Teaches underground, hydraulics systems, AC fundamentals, and hand tools.

LINE 1110  Lineman DC Theory and Lab  
4:1:9  F  
For students in Lineman Technology and as an elective for persons employed in the field as a lineman apprentice or journeymen wanting to update their skills. Covers the basic concepts and theories of DC circuits. Includes components used in DC circuitry and also the tools and equipment used in setting up and checking circuits. Discusses use and care of tools. Emphasizes safety to individual using and testing the equipment. Includes setting up direct current circuits, using meters to check resistance, voltage and amperage. Covers the construction of overhead line, installing anchors, down guys, poles, and conductors.
LINE 1120  Residential Wiring  2:1:3  F  
For students in Lineman Technology as well as apprentice linemen or journeymen wanting to update their skills. Covers house wiring procedures. Includes basic material, installation, and tools. Studies applicable national electric, state, and local electric code sections. Completers should be able to wire a simple building.

LINE 1130  Lineman Applied DC Math  3:3:0  F  
For students in Lineman Technology as well as apprentice linemen presently working in the trade. Solving of direct current, series, parallel, and complex circuits using Kirchhoff’s Law. Uses Ohm’s Law with electrical resistance, amperage, and voltage. Emphasis will be placed on classroom lectures. Stresses proper sizes of conductors and understanding basic wire properties.

LINE 1140  Basic Skill Development and Safety  4:0:12  F  
For students in Lineman Technology as well as apprentice linemen working in the trade. Covers basic instruction in care and proper use of climbing equipment. Introduces the use of equipment used in line construction, and safe working procedures. Includes demonstrations and hands-on lab projects.

LINE 1210  AC Theory and Transformer Applications  4:1:9  Sp  
- Prerequisite(s): LINE 1110 or departmental approval  
For Lineman Technology majors as well as apprentice linemen or journeymen wanting to update their skills. Covers basic construction and theory of inductance, capacitors, and resistance in dealing with AC circuits used in the electrical field. Emphasizes hands-on lab experience. Studies theory of transformers and transformer connection in single transformers and in three-phase bank of transformers.

LINE 1220  Commercial Wiring  2:2:0  Sp  
- Prerequisite(s): LINE 1120 or departmental approval  
For Lineman Technology majors and apprentice linemen currently working in the trade. Studies commercial building plans, specifications, and the applicable codes (national, state, and local) that apply. Addresses correct wiring procedures and identification of materials needed.

LINE 1230  Lineman Applied AC Math  3:3:0  Sp  
- Prerequisite(s): LINE 1130 or departmental approval  
For Lineman Technology majors and apprentice linemen presently working in the trade. Course covers alternating current circuitry, components, devices, and how they relate to the electrical industry. Studies basic alternating current, single and three-phase circuits and their components, and the right angle trigonometry used to solve related problems.

LINE 1240  Single/Three-Phase Lines and Safety  4:0:12  Sp  
- Prerequisite(s): LINE 1140 or departmental approval  
For Lineman Technology majors, as well as apprentice linemen working in the trade, and journeymen lineman wanting to update their skills. Covers the construction of three-phase distribution and transmission lines, connection of single-phase transformer, three-phase transformer banks; installation of cutout arrester and safe working procedures. Includes demonstrations and hands-on lab projects. Completers should have a working knowledge of three-phase distribution lines, phase transmission lines, also equipment installed on three-phase lines.

LINE 1500  Lineman Substation Apprentice 1A  6:6:0  On Sufficient Demand  
- Prerequisite(s): Departmental written approval  
Teaches basic electricity, electrical safety, tool use, Ohm’s law, and series circuits. Covers parallel, combination, and DC fundamentals.

LINE 1510  Lineman Substation Apprentice 1B  6:6:0  On Sufficient Demand  
- Prerequisite(s): Departmental written approval  
Teaches reading electrical symbol diagram 1, substations and switchyard, transmission and distribution, safety in transmission and distribution maintenance. Covers trigonometry for AC electricity, induction and transformers. Introduces T and D systems, and AC electricity fundamentals.

LINE 1520  Lineman Substation Apprentice 2A  6:6:0  On Sufficient Demand  
- Prerequisite(s): Departmental written approval  
Teaches safety in substations and switchyards, electromagnetic induction, high voltage AC power 1 and 2, transformers 1, and reading electrical system diagram 2. Covers use of electrical test equipment and line test equipment, care and testing of tools and equipment, bucket truck 1, and system protection and monitoring.

LINE 1530  Lineman Substation Apprentice 2B  6:6:0  On Sufficient Demand  
- Prerequisite(s): Departmental written approval  
Teaches distribution line safety, material handling bucket truck, power transformer insulation resistor testing, power transformer turns ratio testing, power transformer oil test and power transformer pressure relay testing. Covers new power transformer inspection and tests, power transformer vacuum dry out and vacuum filling, temperature indicating and testing, and oil reconditioning.

LINE 1600  Meter Apprentice 1A  6:6:0  On Sufficient Demand  
- Prerequisite(s): Departmental written approval  
For meter apprentices. Teaches basic electrical principles, principles of magnetism AC concepts. Covers atomic structure, electrical qualities, Ohm’s law, resistors, and parallel circuits. Teaches trigonometry and alternating current.

LINE 1610  Meter Apprentice 1B  6:6:0  On Sufficient Demand  
- Prerequisite(s): Departmental written approval  
For meter apprentices. Teaches math for metering, safety, watt hour meter principles and wire tables.

LINE 1620  Meter Apprentice 2A  6:6:0  On Sufficient Demand  
- Prerequisite(s): Departmental written approval  
For meter apprentices. Teaches meter watt hour constants, register ratios and formulas. Covers principles of accuracy testing, meter testing and calibration.

LINE 1630  Meter Apprentice 2B  6:6:0  On Sufficient Demand  
- Prerequisite(s): LINE 1620 or departmental written approval  
For meter apprentices. Teaches single phase meter application and installation, polyphase power systems, polyphase meter application, meter testing and calibration. Covers instrument transformers, testing single phase transformer rated meters and Blondel’s theorem.

LINE 1640  Meter Apprentice 3A  6:6:0  F, Sp  
- Prerequisite(s): Departmental written approval  
For lineman training technology apprentices. Introduces compressors, transformer connections, underground conduit and street lighting systems. Teaches distribution repair with gloves and hot sticks, and cable installation.

LINE 1650  Meter Apprentice 3B  6:6:0  F, Sp  
- Prerequisite(s): Departmental written approval  
For lineman training technology apprentices. Introduces troubleshooting overhead and transformers, safety and power quality. Teaches high-voltage AC power, switchgear and URD transformers.

LINE 1670  Meter Apprentice 4A  6:6:0  F, Sp  
- Prerequisite(s): Departmental written approval  
For lineman training technology apprentices. Introduces reading electrical diagrams, transformers, splicing and meters. Teaches cable termination, troubleshooting, safety and fault location.

LINE 1680  Meter Apprentice 4B  6:6:0  F, Sp  
- Prerequisite(s): Departmental written approval  
For lineman training technology apprentices. Introduces voltage regulators, customer relations, cable fault locations, and transformers. Teaches troubleshooting, circuit breakers, capacitors and reactors.

LINE 2310  Powerline Technician and Safety Code I  4:2:6  F  
- Prerequisite(s): LINE 1210 or departmental approval  
For Lineman Technology majors to give the trainee a basic knowledge of first aid, basic electricity,
power line installation, and work methods. Includes lectures and lab projects. Completers should be able to function on a line crew.

**LINE 2320 Industrial Wiring**
2:1:3 F
- Prerequisite(s): LINE 1120 and LINE 1220 or departmental approval
For Lineman Technology majors and apprentice linemen currently working in the trade. Studies industrial building sites, electrical materials, tools, equipment, and manpower needed to complete electrical installations. Uses lectures, demonstrations, lab projects, and field trips. Teaches how to read site plans, select proper materials for service equipment, list the substation components, identify various types of busways, determine the number and kind of electrical panels, describe signaling system component parts; be familiar with the machine layout in the industrial building. Completers should be able to assist qualified electrical workers install industrial wiring.

**LINE 2330 Single and Polyphase Metering**
2:1:3 F
- Prerequisite(s): LINE 1110, LINE 1130, LINE 1210, and LINE 1230 or departmental approval
For the Lineman Technology majors and apprentice linemen currently working in the trade. Studies single and three phase residential, commercial, and industrial building metering needs. Includes metering history, construction, principles, and parts of a meter. Teaches meter applications and installations, meter testing and inspection. Uses lecture, demonstration, and lab study. Stresses selection and installation of proper single and three-phase meters to meet customer needs.

**LINE 2340 Three-Phase Lines and Safety**
5:0:15 F
- Prerequisite(s): LINE 1240 or departmental approval
For Lineman Technology majors or apprentice linemen who are currently working in the trade. The skill development and safety phase will contain all facets of outside line work from digging holes, setting poles, stringing conductors, replacing old poles, and general line work. Develops skills through hands-on work, demonstrations, and application of methods learned in classroom experiences. Completers should have a good working knowledge of how to construct and maintain a power line, knowledge of transformers and their applications, and be able to effectively and safely work 4 KV circuits with rubber gloves.

**LINE 2410 Powerline Technician and Safety Code II**
4:1:9 Sp
- Prerequisite(s): LINE 1210 and LINE 2310 or departmental approval
For Lineman Technology majors and apprentice linemen currently working in the linemen trade. Includes basic knowledge of first aid, basic electricity, power line installation, and basic work methods. Studies the National Electrical Safety Code. Emphasizes field work, lectures, and demonstrations. Completers should be able to function as an apprentice on a line crew.

**LINE 2430 Substation Equipment**
4:2:8 Sp
- Prerequisite(s): LINE 1110, LINE 1210, and LINE 2310 or departmental approval
For Lineman Technology majors or apprentice linemen working in the linemen trade. Studies substation site selection, sizing according to existing load requirements, the equipment uses and purposes, and the different types of substation construction. Uses lecture and field trips to established substation sites, video tapes, and hands-on work at the outdoor lab.

**LINE 2440 High Voltage Substation and Safety**
4:6:12 Sp
- Prerequisite(s): LINE 1240 and LINE 2340 or departmental approval
For Lineman Technology majors or apprentice linemen working in the trade. Includes all kinds of dead work and applications of energized work with rubber gloves and hot sticks. Teaches almost exclusively hands-on work methods. Completers should be able to work safely and effectively on all types of energized work with rubber gloves and a variety of energized work with hot sticks.

**LINE 2500 Lineman Substation Apprentice 3A**
6:8:0 On Sufficient Demand
- Prerequisite(s): Departmental written approval
Teaches safety in substations and switchyards continued, circuit breakers 1 and 2, contact resistance testing, new circuit breakers inspections and tests, circuit breaker time travel testing and analysis. Covers Hydraulic derricks and digging equipment rigging 1 and 2 and advanced rigging.

**LINE 2510 Lineman Substation Apprentice 3B**
6:6:0 On Sufficient Demand
- Prerequisite(s): Departmental written approval
Teaches bucket truck safety, capacitors and reactors, voltage regulators, relays 1 and 2, control equipment, and high voltage terminations. Covers substation battery, battery chargers, testing, cell and charger replacement.

**LINE 2520 Lineman Substation Apprentice 4A**
6:6:0 On Sufficient Demand
- Prerequisite(s): Departmental written approval
Teaches SF6 gas properties and handling, current transformer testing 1 and 2, vacuum bottle hi-pot testing, infrared conditioning monitoring, corona discharge testing. Covers multimeter operation and use, instrument transformers, reactive metering concepts, SCADA-system protection and monitoring (Provo), and cable terminations.

**LINE 2530 Lineman Substation Apprentice 4B**
6:6:0 On Sufficient Demand
- Prerequisite(s): Departmental written approval
Teaches safety in transmission and distribution maintenance, safety in substation and switchyards continued, transformers 1, use of electrical test equipment, distribution line safety, power transformer turns ratio testing, power transformer temperature indicating testing, oil reconditions. Covers relays 1 and 2 continued, capacitors and reactors continued, new circuit breakers inspections and tests continued.

**LINE 2600 Meter Apprentice 3A**
6:6:0 On Sufficient Demand
- Prerequisite(s): LINE 1630 or departmental written approval
For meter apprentices. Teaches self contained polyphase meter testing, polyphase transformer rated application. Covers demand metering concepts.

**LINE 2610 Meter Apprentice 3B**
6:6:0 On Sufficient Demand
- Prerequisite(s): LINE 2600 or departmental written approval
For meter apprentices. Teaches testing and calibrating demand meters, meter mounting devices and test switches. Covers reactive metering and reactive meter testing.

**LINE 2620 Meter Apprentice 4A**
6:6:0 On Sufficient Demand
- Prerequisite(s): LINE 2610 or departmental written approval
For meter apprentices. Teaches totalizing meters, installation checks and inspections. Covers solid state meters and associated devices. Teaches customer relations.

**LINE 2630 Meter Apprentice 4B**
6:6:0 On Sufficient Demand
- Prerequisite(s): LINE 2620 or departmental written approval
For meter apprentices. Teaches energy diversion, trouble shooting techniques, and pulse initiators and recorders. Covers electronic metering, register programming and computers.

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**MAT 090R Individualized Mathematics Review**
1 to 3:1 to 3:0 On Sufficient Demand
- 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.

**MAT 0920 Math Fundamentals**
3:3:0 Su, F, Sp
- 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.

**MAT 0950 Foundations for Algebra**
5:5:0 Su, F, Sp
- Prerequisite(s): One of the following: Appropriate test scores taken within the last two years or MAT 0920 with a grade of C- or better completed within
MAT 0980
Integrated Pre-Algebra and Beginning Algebra
5:5:0 Su, F, Sp
- Prerequisite(s): Appropriate test scores that are no more than two (2) years old

MAT 0990
Introductory Algebra
4:4:0 Su, F, Sp
- 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

MAT 1000
Integrated Beginning and Intermediate Algebra
5:5:0 Su, F, Sp
- Prerequisite(s): One of the following: MAT 0950 with a grade of B or better and taken within the last two years or MAT 0980 with a 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

MAT 1010
Intermediate Algebra
4:4:0 Su, F, Sp
- 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

MAT 1010 Intermediate Algebra
4:4:0 Su, F, Sp
- 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

MATH 1030
Quantitative Reasoning
3:3:0 Su, F, Sp
- 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

MAT 1040
Introduction to Statistics
3:3:0 Su, F, Sp
- 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

MATH 1050
College Algebra
4:4:0 Su, F, Sp
- 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

MATH 1060
Trigonometry
3:3:0 Su, F, Sp
- Prerequisite(s): MAT 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)

MATH 1065
Precalculus
5:5:0 On Sufficient Demand
- Prerequisite(s): MAT 1050 and MAT 1060

MATH 1100
Introduction to Calculus
4:4:0 Su, F, Sp
- Prerequisite(s): MAT 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)

MATH 1210
Calculus I
4:4:0 Su, F, Sp
- Prerequisite(s): One of the following: MATH 1050 and MATH 1060, each with a grade of C or better within the past two years; MATH 1065 with a grade of C or better within the past two years; appropriate placement by the Accuplacer test (taken within the past two years)

MATH 121H
Calculus I
5:5:0 F, Sp
- Prerequisite(s): One of the following: MATH 1050 and MATH 1060, each with a grade of C or better within the past two years; appropriate placement by the Accuplacer test (taken within the past two years)

MATH 1220
Calculus II
5:5:0 Su, F, Sp
- Prerequisite(s): MAT 1210 with a grade of C or better

MATH 122H
Calculus II
5:5:0 F, Sp
- Prerequisite(s): MAT 1210 with a grade of C or better

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.

Course Descriptions
techniques, sequences and series, parameterization of curves, polar coordinates, vectors in 3-space, quadric surfaces, and cylindrical and spherical coordinates. Prerequisite for calculus-based sciences.

**MATH 2010** Mathematics for Elementary Teachers I  
3:3:0  
Su, F, Sp  
- 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)  
Includes problem solving, sets, numeration systems, arithmetic of integers, rational numbers, real numbers, elementary number theory, ratios, decimals, and percents.

**MATH 2020** Mathematics for Elementary Teachers II  
3:3:0  
Su, F, Sp  
- Prerequisite(s): MATH 2010 with a grade of C or better  
Includes the basic concepts of statistics, geometry, and measurement.

**MATH 2040** Principles of Statistics  
4:4:0  
Su, F, Sp  
- 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)  
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.

**MATH 2210** Calculus III  
3:3:0  
F, Sp  
- Prerequisite(s): MATH 1220 with a grade of C or better  
Includes partial derivatives, gradient vectors, Lagrange multipliers, multiple integrals, line integrals, Green’s Theorem, surface integrals, the Divergence Theorem, and Stokes’ Theorem.

**MATH 2211** Calculus III  
3:3:0  
Su, F, Sp  
- Prerequisite(s): MATH 1220 with a grade of C or better  
Includes partial derivatives, gradient vectors, Lagrange multipliers, multiple integrals, line integrals, Green’s Theorem, surface integrals, the Divergence Theorem, and Stokes’ Theorem.

**MATH 2270** Linear Algebra  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): MATH 1220 with a grade of C or better  
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 better  

**MATH 281R**  
Cooperative Work Experience  
2 to 3:1:5 to 40  
Su, F, Sp  
- 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.

**MATH 3000** History of Mathematics  
3:3:0  
Sp  
- Prerequisite(s): MATH 2210 with a grade of C or better  
Provides a survey of the history of mathematics.

**MATH 3010** Methods of Secondary School Mathematics Teaching  
3:3:0  
F  
- Prerequisite(s): MATH 2210 with a grade of C or better  
For Mathematics Education majors. Presents different methods of teaching mathematical ideas at the secondary school level. Includes classroom instruction, student 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  
F  
- Prerequisite(s): MATH 2210 and MATH 2270, each with a grade of C or better; MATH 2280 with a grade of C or better is recommended  
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 an appropriate programming language.

**MATH 3100** Foundations of Geometry  
3:3:0  
F  
- Prerequisite(s): MATH 1220 with a grade of C or better  
Offers an axiomatic development of Euclidean and non-Euclidean geometries.

**MATH 3140** Probability and Statistics for Engineering and the Sciences  
3:3:0  
F  
- Prerequisite(s): MATH 2040 and MATH 2210, both with a grade of C or better  
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 3200** Foundations of Analysis  
3:3:0  
F, Su  
- Prerequisite(s): MATH 2210, MATH 2270, and MATH 2280, each with a grade of C or better  
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 better  
Includes the algebra of complex numbers, analytic functions, mapping properties of elementary functions, the Cauchy integral formula, residues, and conformal mapping.

**MATH 3300** Foundations of Abstract Algebra  
3:3:0  
Sp  
- Prerequisite(s): MATH 2210 and MATH 2270, each with a grade of C or better  
Introduces an introduction to algebraic structures. Includes groups, rings, integral domains, fields.

**MATH 3400** Partial Differential Equations  
3:3:0  
Sp  
- Prerequisite(s): MATH 2280 with a grade of C or better  
Includes Bessel functions, Legendre polynomials, Fourier analysis, partial differential equations, and boundary-value problems.

**MATH 3500** Foundations of Topology  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): MATH 1220 with a grade of C or better  
- Pre-or Corequisite(s): MATH 2210  
Introduction to the ideas of topologies, compactness, connectedness, countability, separability, separation axioms, homeomorphisms, and the Baire Category Theorem.

**MATH 3710** Applied Regression and Time Series  
4:4:0  
On Sufficient Demand  
- Prerequisite(s): MATH 2040 minimum grade C.  
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 both with a grade of C or better  
Prepares students to take Exam FM/Exam 2 given by the Society of Actuaries/Casualty Actuarial Society. Trains students to answer complex
**MATH 4000**  
*Introduction to Probability*  
*3:3:0 On Sufficient Demand*  
- Prerequisite(s): MATH 2210 with a grade of C or better  
- Includes random variables, distributions, moments, limit theorems.

**MATH 4015**  
*Introduction to Number Theory*  
*3:3:0 On Sufficient Demand*  
- Prerequisite(s): Instructor Approval

**MATH 4105**  
*Actuarial Problems Laboratory*  
*1:0:3 On Sufficient Demand*  
- Prerequisite(s): MATH 4000  
- Provides preparation for the first actuarial examination by linking concepts of probability and mathematical statistics to actuarial applications.

**MATH 4210**  
*Advanced Calculus I*  
*3:3:0 On Sufficient Demand*  
- Prerequisite(s): MATH 3200 with a grade of C or better  
- Provides a rigorous development of single-variable calculus. Includes sequences and series, continuity and differentiation, the Riemann integral, sequences of functions.

**MATH 4220**  
*Advanced Calculus II*  
*3:3:0 On Sufficient Demand*  
- Prerequisite(s): MATH 4210 with a grade of C or better  
- Provides a rigorous development of multivariable calculus. Includes partial derivatives, the Inverse Function Theorem, the Implicit Function Theorem, multiple integrals, line and surface integrals, Green’s Theorem, and Stokes’ Theorem.

**MATH 4310**  
*Introduction to Modern Algebra I*  
*3:3:0 On Sufficient Demand*  
- Prerequisite(s): MATH 3300 with a grade of C or better  
- First course of a two-semester sequence that covers groups, rings, integral domains, and fields.

**MATH 4320**  
*Introduction to Modern Algebra II*  
*3:3:0 On Sufficient Demand*  
- Prerequisite(s): MATH 4310 with a grade of C or better  
- A continuation of MATH 4310.

**MATH 4330**  
*Theory of Linear Algebra*  
*3:3:0 On Sufficient Demand*  
- Prerequisite(s): MATH 3300 with a grade of C or better  
- 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 1220 with a grade of C or better  
- Includes divisibility, prime numbers, unique factorization, congruences, and quadratic reciprocity.
MECH 2250
Technical Calculus with Analytic Geometry
4:4:0
- Prerequisite(s): MATH 1060
Covers the fundamentals of differential and integral calculus. Emphasizes mathematical techniques applied to technically oriented applications.

MECH 2520
Introduction to Control Systems Programming
4:3:2
- Prerequisite(s): MECH 1510
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.

MECH 2530
Advanced Control Systems Programming
4:3:2
- Prerequisite(s): MECH 2520, CS 2810
Covers real-time programming software and hardware components. Includes the characterization, modeling and analysis of real-time environments.

MECH 3050
Mechatronics Integration Projects
3:3:0
- Prerequisite(s): MECH 2530, MECH 2040
Covers the integration of various mechatronic subsystems. Allows student teams to assemble and test a variety of mechatronic systems. A project-centered class.

MECH 3060
Mechatronics Management
3:3:0
- Prerequisite(s): MECH 2040
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 3170
Mechatronics Foundations
3:3:0
- Prerequisite(s): MECH 1010, MECH 2250
Provides system level principles of design and application for mechatronics systems. Includes utilization of sensors and transducers, actuator systems, controllers, input/output systems, and communications systems.

MECH 3540
Embedded Control Systems
3:3:0
- Prerequisite(s): MECH 2530, EENG 2700
Presents the design of hardware and software required for embedded real-time systems. Involves work with control processors and FPGAs. Studies software and hardware required for preemptive and non-preemptive task scheduling.

MEG—Manufacturing Engineering Technology
MET 1400
Industrial Maintenance 3A
5:5:0
- Prerequisite(s): Departmental written approval
A drafting, blueprint reading, geometric dimensioning and tolerancing course for Industrial Maintenance apprentices. Studies mechanical and structural blueprint reading as it applies to the manufacturing environment. Teaches dimensioning and tolerancing, including the symbols and terms, datums, material condition symbols, form and profile, orientation and runout, and location.

METO—Meteorology
MET 1010
Introduction to Meteorology Laboratory
3:3:0
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.

METO 1020
Introduction to Meteorology Laboratory
1:0:2
Provides hands-on experience for students investigating various meteorologic 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
Examines the causes and effects of climate change through the use of geology, meteorology, astronomy, oceanography, and biology.

METO 3100
Climate and the Earth Systems
3:3:0
- Prerequisite(s): (CHEM 1110 or 1210), MATH 1050 and GEO 1010
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.

MGMT—Business Management
MGMT 1010
Introduction to Business
3:3:0
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.

MGMT 117R
Delta Epsilon Chi
1:1:1
F, Sp
Delta Epsilon Chi is a national student organization designed for all marketing/hospitality majors. Helps students develop professionally through opportunities to use and apply leadership, human relations, management, social, communicative, and organizational skills. Includes involvement with the business community. Provides opportunities for leadership positions, committee assignments, participation in school and community activities, and competition in state and national events. Requires payment of local, state, and national dues. May be taken a maximum of two times for credit. Offered on a credit/no credit basis.

MGMT 118R
Delta Epsilon Chi Leadership
1:1:1
F, Sp
For Delta Epsilon Chi officers. Includes leadership development, organization, and direction of the DEX program of work for UVU Chapter. Course will be offered on a credit or no credit basis. May be taken a maximum of two times for credit.

MGMT 1200
Business English
3:3:0
- Prerequisite(s): ENGH 0990 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.

MGMT 1250
Principles of Leadership
3:3:0
F, Sp
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.

MGMT 126R
Leadership Academy—No Greater Heroes I
2:1:3
On Sufficient Demand
Assists in mastery of the key communication skills, beliefs, and physiology of truly successful people. Utilizes a behavioral model with specific strategies to produce extraordinary results on a consistent basis. Helps students take intelligent action toward producing outstanding results in life. Assists in learning to condition mind and body to consistently react with power and focus in situations. Provides life experiences to demonstrate resolve. Provides opportunities to make a difference in another person's life. May be repeated one time for credit for a maximum of 4 credits. (BS Business Management majors may count 2 credits toward degree elective credits.)

MGMT 127R
Leadership Academy—No Greater Heroes II
2:1:3
On Sufficient Demand
- Prerequisite(s): MGMT 126R
Emphasizes the rewards received by those who give extraordinary ways. Produce and use evaluation

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tools to assess one's journey toward predetermined outcomes. Learn to use data to increase productivity, monitor performance, and adjust needed changes required to achieve objectives and goals. Emphasizes the need for documentation so success can be duplicated consistently over and over. Includes field work presenting motivational activities in both junior and elementary schools. May be repeated one time for credit for a maximum of 4 credits. (BS Business Management majors may count 2 credits toward degree elective credits.)

MGMT 181R
Phi Beta Lambda
1:1:0 F, Sp
PhD Beta Lambda is a national student organization designed for all business majors. Helps students develop professionally through opportunities to use and apply leadership, human relations, management, social, communicative, and organizational skills. Includes involvement with the business community. 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. Course will be graded on a credit/no credit basis. Can be repeated as many times as desired for interest.

MGMT 182R
Phi Beta Lambda Leadership
1:1:0 F, Sp
For Phi Beta Lambda officers. Includes development, organization, and direction of the PBL program of work for UVU Rho Lambda Chapter. Graded on a credit/no credit basis. May be repeated once for a maximum of two credits.

MGMT 2030
Women in Business
3:3:0
• 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 (cross-listed with: COMM 2110)
Interpersonal Communication
3:3:0 F, Sp
Examines the role of communication interpersonal relationships. Includes the history of interpersonal communication research and theory and applications such as negotiation, conflict management, listening, and assertiveness.

MGMT 2200
Business Communication
3:0 Su, F, Sp
Teaches written correspondence and business reports using direct and indirect approaches. Emphasizes basic language utilization. Includes application of communication principles to business writing situations. Requires completion of a formal research document.

MGMT 2220
Foundations of Business Statistics
3:3:0 F, Sp
• Prerequisite(s): MATH 1050
For bachelor's degree business management majors; elective credit for other School of Business majors. Studies quantitative tools, which aid in decision making. Teaches use of algebra, mathematical programming, probabilities, and calculus to solve typical business problems. Uses lectures and problem sets to explain concepts.

MGMT 2250
Job Application and Advancement Skills
1:1:0 On Sufficient Demand
• Prerequisite(s): Basic word processing skill; MGMT 2200 preferred
Emphasizes the development of effective techniques for successfully locating, applying for, securing employment, and advancing in a career. Includes demonstration, role play, and application exercises. Should be taken near the end of the business major's educational program or concurrently with cooperative work experience.

MGMT 2340
Business Statistics I
3:3:0 Su, F, Sp
• Prerequisite(s): MGMT 2240 or MATH 1100
Presents an application of statistics in business and economics covering methods of collecting, analyzing, and presenting data. Includes frequency distributions, averages, index numbers, probability, sampling, estimation, analysis of variance, time series, regression and correlation, and chi-square.

MGMT 2390
Effective Business Presentations
3:3:0 F, Sp
• Prerequisite(s): One of the Following: DGM 3820, DGM 2010, DGM 201B or business computer proficiency or Instructor Approval
For students and others interested in developing effective 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.

MGMT 2450
Principles of Personal Excellence
3:3:0 F, Sp
Introduce 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.

MGMT 258R
Current Topics in International Business
1 to 3:1 to 3:0 On Sufficient Demand
• 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 259R
Current Topics in Marketing
1 to 3:1 to 3:0 On Sufficient Demand
• 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.

MGMT 2700
Business and Service in Action
2:1:3 On Sufficient Demand
Explores previous business course content with hands-on experience. Provides leadership and service opportunities. Includes lecture, homework, and out-of-class lab time consisting of service-related experiential learning. Completers should have a greater understanding of the business major with practical service experience.

MGMT 281R
Cooperative Work Experience
2 to 8:0:10 to 40 Su, F, Sp
• 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.

MGMT 290R
Independent Study
1 to 3:1 to 3:0 On Sufficient Demand
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.
survey of international business

mgmt 330g

introduces students to principles of the management process and related theoretical concepts of social behavior in organizations. develops skills and knowledge of what managers must do, using the framework of the four management functions: planning, organizing, leading, and controlling. introduces students to the use of the management process. develops students’ knowledge of team dynamics and student’s individual team skills.

mgmt 370g

total quality management

prerequisite(s): mgmt 3450 and matriculation into business management bachelor’s degree program
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.

mgmt 3170

entrepreneurship

prerequisite(s): engl 1010
(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.

mgmt 3180

small business development

prerequisite(s): engl 1010
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 businesses as well as the interaction between these elements. covers legal aspects of operating a business.

mgmt 3190

entrepreneurship financing ventures

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, pro forma financial statements, cash flow, bootstrapping, and debt and equity financing in an entrepreneurial environment.

mgmt 3200 (cross-listed with: hm 3200)

global tourism

prerequisite(s): mgmt 2200 or engl 2010 or engl 2020
(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: hia 3210)

convention and events management

prerequisite(s): engl 2010 or engl 2020
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

prerequisite(s): engl 2010 or engl 2020 or mgmt 2200 and eco 2010
(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.)

mgmt 332g (cross-listed with: comm 332g)

cross-cultural communications for international business

prerequisite(s): engl 2010 or engl 2020
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.

mgmt 3390

business and professional presentations

prerequisite(s): mgmt 2200 and complete one of the following: dmg 3820, dmg 2010, dmg 201b, or business computer proficiency or instructor approval

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.

mgmt 3430

human resource management

su, f, sp

prerequisite(s): engl 2010 or engl 2020
(studies 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.)

mgmt 3440

managing organizations

on sufficient demand

prerequisite(s): mgmt 3000
(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.)
MGMT 3550
Operations Management
3:3:0 Su, F, Sp
- Prerequisite(s): MGMT 2340 and Matriculation into Business Management Bachelor's Degree Program
Focuses on the management of resources for products or services within an organization. Covers facility location and layout, planning, and operational processes. Emphasizes product/service development, forecasting, inventory control, quality assurance, and research techniques.

MGMT 3470
Lean Management Systems
3:3:0 On Sufficient Demand
- Prerequisite(s): MGMT 3450
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 Sp
- Prerequisite(s): MGMT 1250, ENGL 2010 or ENGL 2020
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.

MGMT 3530 (Cross-listed with LEGL 3530)
Employment and Labor Law
3:3:0 F
- Prerequisite(s): ENGL 2010 or ENGL 2020
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.

MGMT 3550
Organization Development
3:3:0 On Sufficient Demand
- Prerequisite(s): ENGL 1010
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
- Prerequisite(s): ENGL 2010 or ENGL 2020, 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
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
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 3890
Career Preparation
2:2:0 Su, F, Sp
- Prerequisite(s): MGMT 2200
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.

MGMT 4000
Compensation and Benefits
3:3:0 On Sufficient Demand
- Prerequisite(s): MGMT 3430, 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.

MGMT 4200
Opportunity Identification in Entrepreneurship
3:3:0 F
- Prerequisite(s): Matriculation into the Business Management Bachelor's Degree
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.

MGMT 4210
Entrepreneurship Personal Development
3:3:0 Sp
- Corequisite(s): MGMT 4200
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 4220
Management Communication
3:3:0 Sp
- Prerequisite(s): MGMT 2200 and Matriculation into the Bachelor's Degree Program
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.

MGMT 4290
Individual Action and Corporate Social Responsibility
3:3:1 On Sufficient Demand
- Prerequisite(s): MGMT 3010, Matriculation into the BS Business Management Program, and senior status
Explores the individual decision-making and leadership that underlies, drives, and shapes corporate social responsibility (CSR). Uses cases grouped around the main three areas of leadership, decision-making, and CSR. Uses primarily film to explore these cases, along with documentaries, trial summaries, congressional and government reports, and newspaper and magazine articles. Covers the basic theory and models of corporate social responsibility, decision making, and leadership; and explores the relationship and dynamics between individual decision making and leadership and corporate or collective social responsibility. Utilizes academic and practitioner articles that explore various aspects of leadership, decision making, and corporate social responsibility. Includes case analysis and reflection; an autobiographical exploration of leadership, decision making, and corporate social responsibility models; and a team project.
MGMT 4300 Entrepreneurship Business Planning 3:3:0 Sp
- Prerequisite(s): MGMT 4200 and Matriculation into the Business Management Bachelor’s Degree Program
Covers marketing research, accounts receivable management, insurance analysis, and business taxation. Deals with local issues, regulations, statistics, patents, and estate planning. Students write a comprehensive business plan and should be able to competently manage a small business or start their own with a minimum risk of failure.

MGMT 4400 New Venture Financing 3:3:0 On Sufficient Demand
- Prerequisite(s): FIN 3150 and Matriculation into the Bachelor’s Degree Program
Covers advanced concepts and skills in entrepreneurship/small business management. Emphasizes how new and emerging companies are financed. Applies functional tools to case situations.

MGMT 4450 Entrepreneurship Enterprise Formation 3:3:0 Sp
- Prerequisite(s): MGMT 4200 and MGMT 4300
Applies learning from the entrepreneurship program to the start-up of a working business with students working in teams or individually under the direction of successful entrepreneurs. Integrates business theory with the reality of securing resources, developing product/service and taking it to market.

MGMT 458R Advanced Topics in International Business 1 to 3:1 to 3:0 On Sufficient Demand
- 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 six hours toward graduation.

MGMT 459R Advanced Topics in Marketing 1 to 3:1 to 3:0 On Sufficient Demand
- Prerequisite(s): Department Chair Approval
Provides exposure to emerging topics of current interest in marketing. Topics vary each semester. May apply a maximum of six hours toward graduation.

MGMT 4610 Workforce Planning and Staffing 3:3:0 On Sufficient Demand
- Prerequisite(s): MGMT 3430 and Matriculation into the Business Management Bachelor’s Degree Program; MGMT 3330 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/position matches.

MGMT 4800 Strategic Management 3:3:0 Su, F, Sp
- Prerequisite(s): All core classes, senior standing, and Matriculation into a School of Business bachelor’s degree program
- Corequisite(s): MGMT 4830
The capstone course for the Bachelor’s Degree in Business Management. Provides a program of study designed to integrate all functional management area skills via case analysis and methods while instilling strategic management concepts and thinking processes. Includes written and oral reports, lectures, class discussions, and group projects, and when appropriate, utilizes videos and guest speakers.

MGMT 481R Internship 1 to 8:0:5 to 40 Su, F, Sp
- Prerequisite(s): Approval from School of Business Career and Corporate Manager
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 six credit hours of internship work experience will apply toward graduation in any Business Management Specialization.

MGMT 4830 Strategic Management Capstone Simulation 1:1:0 Su, F, Sp
- Corequisite(s): MGMT 4800
Capstone simulation application to be taken by students in the outlined courses. Integrates strategic course material with hands-on simulation of decisions that will be required of students when they move into the real world of work.

MGMT 4870 International Management 3:3:0 Sp
- Prerequisite(s): Matriculation into the Business Management Bachelor’s Degree Program, (MGMT 3000 or MGMT 3010), and MGMT 330G, MKTG 3600, FIN 3100
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.

MGMT 4890 Independent Study 1 to 3:1 to 3:0 On Sufficient Demand
- Prerequisite(s): Department Chair Approval
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 six hours toward graduation.

MGMT 492R Human Resource Seminar 1:1:0 On Sufficient Demand
- Prerequisite(s): Instructor approval
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 two credits toward graduation.

MGMT 493R Entrepreneurship Lecture Series 1:1:0 F, Sp
Presents lectures by guest speakers on current entrepreneurship issues and topics. Speakers and topics vary each semester. May apply a maximum of three credits toward graduation.

MGMT 494R Seminar 0.5 to 3:0:5 to 3:0 On Sufficient Demand
Provides short courses, workshops, and special programs in business management, leadership, or current business topics. Repeatable for up to three credits toward graduation.

MGMT 495R Executive Lecture Series 1:1:0 F, Sp
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 three 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
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
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 6450 Operations Management 3:3:0
- 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
- 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 6510**
*Information Systems for Business*
3:3:0
- Prerequisite(s): Acceptance in the MBA program
Introduces information systems at general management level. Includes strategic look at needs of any organization and how the function of information systems can help the organization become more effective.

**MGMT 6600**
*Marketing Strategy*
3:3:0
- Prerequisite(s): Acceptance in the MBA program
Analyzes current marketing management problems. Emphasizes marketing concepts, research techniques, decision making, and marketing strategy development.

**MGMT 6740**
*Decision Making in Operations 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
- 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 6860**
*Applied Business Research*
3:3:0
- Prerequisite(s): Acceptance in the 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. Introduces the philosophy of science, research design, measurement and scaling, reliability and validity, communication of research results, and related issues.

**MGMT 6900**
*Business Ethics and Social Responsibility*
3:3:0
- Prerequisite(s): Acceptance in the MBA program
Focuses on ethical issues in organizations and the 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 6960**
*Capstone Engaged Learning Project*
3:3:0
- 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.

**MICR—Microbiology**

**MICR 2060**
*Microbiology for Health Professions*
3:3:0
- Prerequisite(s): BIOL 1010 or BIOL 1610, ENGL 1110
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*
- Prerequisite(s): BIOL 1010 or BIOL 1610, ENGL 1110
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.

**MICR 3200**
*Emerging and Re-Emerging Diseases and Zoonoses*
3:3:0
- Prerequisite(s): BIOL 1620 and (MICR 2060 or MICR 3450)
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 3400**
*General Microbiology*
3:3:0
- Prerequisite(s): BIOL 3400 required, BIOL 3600 recommended
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 3450**
*General Microbiology Laboratory*
1:0:2
- Prerequisite(s): BIOL 3400 required, 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.

**MICR 3455**
*Pathogenic Microbiology*
4:3:2
- Prerequisite(s): MICR 3450 or MICR 2060 with instructor consent
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.

**MICR 4300**
*Virology*
3:3:0
- Prerequisite(s): BIOL 3400 and MICR 3430 or (MICR 2060 with instructors consent required). 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.

**MILS—Military Science**

**MILS 1200**
*Introduction to Leadership Excellence*
2:2:0
- 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.
### Course Descriptions

**MILS 1210**
**Introduction to Leadership Excellence II**
2:2:0  
- **Prerequisite(s):** MILS 1200 or Department Approval  
- **Corequisite(s):** MILS 145R

Compared and analyzes leadership styles found in the U.S. Army, as well as business, academic, and government organizations. Studies Army organization, active and re-serve forces; winter survival, advanced fire-team and aggressor tactics. Lab required.

**MILS 143R**
**Military Fitness**
1:0:3  
- **Prerequisite(s):** Department Approval

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  
- **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 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 3200**
**Small Unit Leadership I**
3:3:0  
- **Prerequisite(s):** MILS 2210  
- **Corequisite(s):** MILS 345R

Prerequisite to attendance at 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 3210**
**Small Unit Leadership II**
3:3:0  
- **Prerequisite(s):** MILS 3200  
- **Corequisite(s):** MILS 345R

Prerequisite to attendance at 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 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 3000- and 4000-level classes. Students not enrolled in Army ROTC may take this class four times for credit with department 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 Offic serge**
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 State 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.

**MKTG—Marketing**

**MKTG 335G**
**International Marketing**
3:3:0  
- **Prerequisite(s):** MKTG 3600

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.

**MKTG 3600**
**Principles of Marketing**
3:3:0  
- **Prerequisite(s):** ENGL 1010

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 analyses, lectures, class discussions, videos, oral presentations, written assignments, and guest speakers.
MKTG 3620 Consumer Behavior 3:3:0 F
- Prerequisite(s): MKTG 3600, MGMT 2340
  - 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.

MKTG 3630 Services Marketing 3:3:0 F, Sp
- Prerequisite(s): MKTG 3600
  - 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, video tapes, role plays, case analysis, oral presentations, and written assignments.

MKTG 3650 Selling and Sales Management 3:3:0 F, Sp
- Prerequisite(s): Matriculation into any Woodbury School of Business Bachelor’s Degree Program
  - 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.

MKTG 3660 Digital Marketing 3:3:0 F, Sp
- Prerequisite(s): MKTG 3600
  - 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.

MKTG 3670 Advertising and Promotion 3:3:0 Sp
- Prerequisite(s): MKTG 3600 and Matriculation into any Woodbury School of Business Bachelor’s Degree Program
  - 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.

MKTG 4400 Competitive Intelligence 3:3:0
- Prerequisite(s): Matriculation into any Woodbury School of Business Degree Program
  - 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 4600 Marketing Research 3:3:0 F
- Prerequisite(s): MKTG 3600, MGMT 2340
  - 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.

MKTG 4650 Marketing Management 3:3:0 Sp
- Pre- 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 3:0:5 to 15
- Prerequisite(s): Completion of the Online Orientation and Departmental Approval
  - 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. Graded credit/no credit. May be repeated for a maximum of 6 credits toward graduation. Graded Credit/No Credit

MKTG 481R Marketing Internship 1 to 3:0:5 to 15
- Prerequisite(s): Completion of the Online Orientation and Departmental Approval
  - Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. Graded credit/no credit. May be repeated for a maximum of 6 credits toward graduation. Graded Credit/No Credit

MUSC 1010** Introduction to Music 3:3:0 Su, F, Sp
- A survey course designed to make music more meaningful. Studies melody, harmony, form, and rhythm together with historical and biographical information.

MUSC 101H Introduction to Music 3:3:0
- Prerequisite(s): Ability to read music and Departmental Approval
  - Develops an appreciation and understanding of music. Studies melody, harmony, form, and rhythm. Focuses on the historical development of Western art music, including the contributions of major composers. Examines musical genres such as the chant, motet, madrigal, concerto grosso, opera, cantata, oratorio, symphony, music drama and tone poem. Practices the aural identification of specific compositions.

MUSC 102G Introduction to World Music 3:3:0 F, Sp
- Explores diverse music throughout the world. Studies melody, harmony, form, and rhythm in international historical and cultural contexts.

MUSC 1030 American Popular Music 3:3:0 F, Sp, Su
- Studies the emergence, development, and characteristics of American music including Jazz, Blues, Country, Rock, Motown, Hip-Hop, and other popular styles. 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.

MUSC 1050 Beginning Piano I 2:2:0 F
- 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.

MUSC 1060 Beginning Piano II 2:2:0 Sp
- Prerequisite(s): MUSC 1050
  - Builds on the skills learned in Beginning Piano I. Studies notation, scales, chord progressions, sight-reading, basic harmonization, transposition, and improvisation.

MUSC 1100 Fundamentals of Music 3:3:0 Su, F, Sp
- 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.

MUSC 1110 Music Theory I 3:3:0 F
- Prerequisite(s): MUSC 1100 or passing score on Music Program Placement Test
  - Corequisite(s): MUSC 1130 and MUSC 250R
  - Studies the fundamentals of music theory including elementary harmony, primary and secondary triads with inversions, non-harmonic tones and modulation.

MUSC 1120 Music Theory II 3:3:0 Sp
- Prerequisite(s): MUSC 1110
  - Corequisite(s): MUSC 1140 and MUSC 250R
  - 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.

MUSC 1130 Aural Skills I
1:1:1 F
- Corequisite(s): MUSC 1110 and MUSC 250R
Provides training in the aural identification of intervals and triads. Practices rhythmic dictation in simple, meters, and melodic dictation of simple melodies. Studies the solfege movable

MUSC 1140 Aural Skills II
1:1:1 Sp
- Prerequisite(s): MUSC 1130
Corequisite(s): MUSC 1120 and MUSC 250R
Provides further training in the aural identification of intervals and triads. Practices rhythmic dictation in simple and compound meters, and melodic dictation in major and minor keys. Studies the solfege movable

MUSC 1150 Group Piano I
2:2:0 Su, F, Sp
- Prerequisite(s): MUSC 1100 or passing score on Music Program Placement Test
Develops fundamental piano skills including major and harmonic minor scales, arpeggios, chord progressions, sight-reading, harmonization, transposition, accompanying, and performance.

MUSC 1160 Group Piano II
2:2:0 Sp, Su
- Prerequisite(s): MUSC 1150 or instructor approval
Builds on the skills learned in Group Piano I. Develops further facility in major and harmonic minor scales, arpeggios, chord progressions, sight-reading, harmonization, transposition, improvisation, accompanying, and performance.

MUSC 1170 Group Guitar I
2:2:0 F, Sp, Su
Teaches fundamental skills used in playing popular guitar styles. Covers essential left and right hand techniques as well as basic musical rudiments.

MUSC 1180 Group Guitar II
2:2:0 F, Sp, Su
- Prerequisite(s): MUSC 1170
Develops a variety of right and left hand techniques. Teaches both standard and tablature-style notation. Provides solo and ensemble performance opportunities.

MUSC 124R UVU Concert Choir
1:0:2:0:0 F, Sp
- Prerequisite(s): Instructor approval
For the singer desiring experience in choral performance. Provides the opportunity of performing in a group of select singers. Studies music of various style and periods. Requires participation in concerts and programs. Instructor approval is required. May be repeated. Two credits may apply toward the AAS degree and four credits toward the AA/AS degree.

MUSC 1400 Introduction to Music Technology
2:2:0 F, Sp
Covers the fundamentals of MIDI (musical recording technology, analog and digital synthesis, and digital sampling). Surveys available music software and hardware with hands-on experience in the College's electronic music studio.

MUSC 1410 Introduction to Careers In Contemporary Music Media
1:1:3
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 F, Sp, Su
- 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.

MUSC 1630 Group Voice I
1:1:1 F
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 Sp
- 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 1650 String Practicum I
1:1:1 F (every other year)
Teaches basic performing skills on the violin, viola, cello and bass. 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.

MUSC 1660 Woodwind Practicum I
1:1:1 F (every other year)
Teaches basic performing skills on the clarinet and saxophone including tone production, articulation, registers and fingerings. Studies pedagogical methods, processes and literature. Covers strategies for the recruitment and organization of a band program. Discusses instrument selection and maintenance, reeds and accessories.

MUSC 1680 Brass Practicum I
1:1:1 F (every other year)
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.

MUSC 1800 Introduction to Music Education
1:1:1 F
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 F
- 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 F
- 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, major, minor keys and modes with coordinating Kodaly hand signs.

MUSC 2140 Aural Skills IV
1:1:1 Sp
- Prerequisite(s): MUSC 2130

MUSC 2350 Fundamentals of Conducting
2:2:0 F
For music majors, interested students and community members. An introductory course which covers the basics of conducting. Focuses on
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MUSC 2400
Recording Studio I
2:1:2 F, Sp

- Prerequisite(s): MUSC 2400
- Corequisite(s): MUSC 2410

Introduces recording studio from an artistic and operational point of view. Emphasizes audio consoles, microphones, multi-track recorders, and echo chambers. Increases understanding of operation and function of recording equipment and its relationship to musicians, sound engineer, and producer.

MUSC 2420
Recording Studio II
2:1:2 Sp

- Prerequisite(s): MUSC 2400
- Corequisite(s): MUSC 2410

Continues the study and application of recording techniques begun in MUSC 2400. Emphasizes multi-track recording and mix down, microphone placement, and patch bay function. Requires creative projects demonstrating proficient use of studied equipment.

MUSC 250R
Private Lessons for Music Majors
1:1:1 F, Sp, Su

- Prerequisite(s): Audition required.
- Corequisite(s): Course approval

Offers private instruction and performance class for instrument or voice. Designed to meet the individual needs of the student in developing skills and techniques. Requires a minimum of eight hours of practice each week. For music majors only. May be repeated as desired.

MUSC 288R
Internship in Music I
1 to 8:0:5 to 40 F, Sp

- 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 towards graduation.

MUSC 290R
Independent Study
1 to 3:0:3 to 9 F, Sp, Su

- 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 I
1:1:1 F

- Prerequisite(s): MUSC 1110 and MUSC 1120
- Corequisite(s): MUSC 250R or MUSC 450R

Teaches proficiency in the International Phonetic Alphabet as it applies to English and Italian diction for singers. Practices basic grammar and reading skills in Italian. Enhances the ability to sing in Italian with accent and nuance that is acceptable for vocal repertoire.

MUSC 3002
Diction II
1:1:1 F

- Prerequisite(s): MUSC 3001
- Corequisite(s): MUSC 250R or MUSC 450R

Teaches proficiency in the International Phonetic Alphabet as it applies to French and German diction for singers. Practices basic grammar and reading skills in French and German. Enhances the ability to sing in French and German with accent and nuance that is acceptable for vocal repertoire.

MUSC 304R
Studio Arranging and Producing
3:3:0 F, Sp

- Prerequisite(s): MUSC 1120, MUSC 1140, MUSC 1400, MUSC 1410

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.

MUSC 3050
Film Scoring
3:3:0 F, Sp

- Prerequisite(s): MUSC 1120, MUSC 1140, and MUSC 1400

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, tempo, 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.

MUSC 306R
Advanced Keyboard Skills
1:0:2

- Corequisite(s): MUSC 250R or MUSC 450R

Provides advanced study in piano technique, sight-reading, and ensemble skills. Develops pedagogical skills through masterclasses and teaching beginners. May be repeated for maximum of 12 credits toward graduation.

MUSC 3120
Form and Analysis
3:3:0 F

- Prerequisite(s): MUSC 2110

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 Instrument Conducting
2:2:0 Sp

- Prerequisite(s): MUSC 2350, MUSC 3120 or instructor’s permission

Teaches advanced baton techniques, score preparation and basic rehearsal procedures for instrumental ensembles.

MUSC 320R
Masterworks Chorale
1:0:4 F, Sp

- Prerequisite(s): Audition

Provides group training in the various styles of choral literature. Requires attendance at scheduled performances. May be repeated as desired.

MUSC 322R
Chamber Choir
1:0:3.0 to 4.0 F, Sp

- 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.

MUSC 328R
Womens Chorus Treble Singers
1:2 F, Sp

- Prerequisite(s): Audition

Provides female vocalists the opportunity to perform in a select group of treble singers. Studies music of various styles and periods. Requires participation in concerts, programs, and tours. May be repeated as desired.

MUSC 330R
Wind Symphony
1:0:4 F, Sp

- Prerequisite(s): Audition

Improves musical performance skills by participation in the band. Studies and performs serious concert literature. Requires attendance at all concerts, performances, and tours. May be repeated as desired.

MUSC 331R
Percussion Ensemble
1:0:3 F, Sp

- 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.

MUSC 332R
Jazz Ensemble
1:0:3 F, Sp

- 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 3400
Music in the Elementary School
2:2:0 Su, F, Sp

For Elementary Education students and other interested students and community members. Introduces concepts and techniques of music
Course Descriptions

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  F (every other year)
- Prerequisite(s): MUSC 2110
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  Sp
- Prerequisite(s): MUSC 2110, MUSC 3410
Teaches the sequence, tools, materials, and philosophy of teaching musical concepts to children in grades 4-6. Develops skill on classroom instruments.

MUSC 3415
String Pedagogy I
2:2:0  F (every other year)
- Prerequisite(s): MUSC 3410 is recommended
Provides instruction on string methods for teaching either in the private studio or in the elementary school.

MUSC 3416
String Pedagogy II
2:2:0  Sp (every other year)
- Prerequisite(s): MUSC 3415, MUSC 3410 is recommended
Provides instruction on string methods for teaching either in the private studio or in the elementary school.

MUSC 3450
Music History and Literature I
3:3:0  F
- Prerequisite(s): MUSC 3120
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  Sp
- Prerequisite(s): MUSC 3450
Covers the history of European-sphere 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
1:1:1  Sp (every other year)
- Prerequisite(s): Prepares music education majors in the pedagogy and methods of percussion instruments.

MUSC 3650
String Practicum II
1:1:1  Sp (every other year)
- Prerequisite(s): MUSC 1650
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.

MUSC 3660
Woodwind Practicum II
1:1:1  Sp (every other year)
- Prerequisite(s): MUSC 1660
Provides performance instruction on the flute, oboe, and bassoon. Studies pedagogical processes and choices for method books and band literature. Covers the planning and execution of effective rehearsals. Discusses instrument selection and maintenance, reeds and accessories.

MUSC 3680
Brass Practicum II
1:1:1  Sp (every other year)
- Prerequisite(s): MUSC 1680
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.

MUSC 3690
Jazz Practicum
1:1:1  Sp
- Prerequisite(s): MUSC 1660 or MUSC 1680
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  F, Sp
- 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  F, Sp
- 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  F, Sp
- 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 3800
Junior Recital
2:0:6  F, Sp
- Corequisite(s): MUSC 450R
Provides a solo recital experience for students during their junior year.

MUSC 4120
Twentieth-Century Theory
3:3:0  F
- Prerequisite(s): MUSC 3450
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  Sp
- Prerequisite(s): MUSC 3120
Studies techniques of scoring and arranging music for orchestra, band, choir, and small ensembles.

MUSC 4140
Counterpoint
3:3:0
- Prerequisite(s): MUSC 3120
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.

MUSC 4150
Advanced Choral Conducting
2:2:0  Sp
- Prerequisite(s): MUSC 2350, MUSC 2120, MUSC 2010, MUSC 2020
Develops advanced baton techniques, score preparation and basic rehearsal procedures for choral organizations.

MUSC 4220
Choral Literature and Methods
2:2:1  Sp
- Prerequisite(s): MUSC 2350, MUSC 3451
Studies the literature, methodology, and administration of a school choral program. Includes field work in the public schools.

MUSC 423R
Opera Workshop
1:0:2  F, Sp
- Corequisite(s): MUSC 250R
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.

MUSC 4340
Marching Band Techniques
1:1:1  F
Teaches organization and training of marching bands in public schools. Emphasizes precision marching and traditional formation techniques. Covers elements of instrumentation, charting, drill techniques and parade marching.
MUSC 492R Advanced Topics in Music
1 to 3:1 to 3:0 F, Sp
• Prerequisite(s): MUSC 3120 and departmental approval. 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.

NURS—NURSING

NURS 1400 Introduction to Nursing
2:2:0 On Sufficient Demand
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 2000 Nursing Health Assessment
2:0:2 F, Sp
• Prerequisite(s): Acceptance into ASN/BS Nursing program
• Corequisites(s): NURS 2305
• Pre- or Corequisite(s): NURS 2320
Introduces the nursing student to health history interview and physical assessment 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 2005 Nursing Health Assessment Laboratory
1:0:2 F, SP
• Prerequisite(s): Acceptance into ASN/BS Nursing program
• Corequisites(s): NURS 2000
• Pre- or Corequisite(s): NURS 2320
Provides laboratory and clinical opportunities to perform health assessment skills and techniques for individuals across the lifespan. Applies theoretical principles gained from concurrent courses.

NURS 2110 Nursing Pharmacology
3:3:0 F, Sp
• 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 2200 Nursing Interventions
2:2:0 F, Sp
• Prerequisite(s): Acceptance into ASN/BS Nursing program
• Corequisites(s): NURS 2325
• Pre- 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.

NURS 2225 Nursing Interventions Laboratory
2:0:2 F, SP
• Prerequisite(s): Acceptance into ASN/BS Nursing program
• Corequisites(s): NURS 2320
• Pre- or Corequisite(s): NURS 2320
Provides laboratory and clinical opportunities to perform 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. Emphasizes nursing interventions based on patient assessment as well as safety risk reduction.

NURS 2400 Clinical Reasoning in Nursing
2:2:0 On Sufficient Demand
• 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.

NURS 2410 Nursing Care of Adults with Common Disorders
2:2:2 F, Sp
• Prerequisite(s): NURS 2320
• Corequisites(s): NURS 2415
• Pre- 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.

NURS 2415 Nursing Care of Adults with Common Disorders Clinical
2:0:6 F, Sp
• Prerequisite(s): NURS 2320
• Corequisites(s): NURS 2410
• Pre- 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.

NURS 2420 Nursing Care of Older Adults
2:2:0 F, Sp
• Prerequisite(s): NURS 2300, NURS 2310
• Corequisites(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 are competent to meet needs of the growing elderly population, using concepts and nursing roles established in ANA’s...
Course Descriptions

NURS 2430
Nursing Care of Persons with Psychiatric Disorders
2:2:0 F, Sp
- Prerequisite(s): NURS 2300, NURS 2310
- Corequisite(s): NURS 2435

NURS 2435
Nursing Care of Persons with Psychiatric Disorders Clinical
1:0:3 F, SP
- 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 On Sufficient Demand
- 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.

NURS 285R
Independent Study in Nursing
1 to 4:1:1 to 4:0 On Sufficient Demand
- 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 F, Sp
- Prerequisite(s): NURS 2320
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 F, Sp
- Prerequisite(s): NURS 2410
- Corequisite(s): NURS 3315
Builds on concepts learned in previous and concurrent courses to provide nursing care to families in the reproductive years. Emphasizes 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 F, SP
- Prerequisite(s): NURS 2410
- 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.

NURS 3320
Nursing Care of Child Rearing Families
2:2:0 F, Sp
- Prerequisite(s): NURS 3310, NURS 3315
- Corequisite(s): NURS 3325
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 F, SP
- Prerequisite(s): NURS 3310, NURS 3315
- 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.

NURS 3330
Nursing Care of Persons with Complex Disorders
2:2:0 F, Sp
- Prerequisite(s): NURS 2410
- Corequisite(s): NURS 3335
- Pre- 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.

NURS 3335
Nursing Care of Persons with Complex Disorders Clinical
2:8:0 F, Sp
- Prerequisite(s): NURS 2410
- Corequisite(s): NURS 3330
- Pre- 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.

NURS 3400
Patient Care Coordination and Management
2:2:0 F, Sp
- Prerequisite(s): NURS 3330, NURS 3335
- Corequisite(s): NURS 3405
Focuses on the roles of the nurse as a manager of care and provider of care. Incorporates aspects of delegation, prioritization, time management in the workplace, communication, and group dynamics.

NURS 3405
Patient Care Coordination and Management Preceptorship
2:0:0 F, Sp
- Prerequisite(s): NURS 3330, NURS 3335
- Corequisite(s): NURS 3405
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 roles of the nurse as a manager of care and provider of care. Incorporates aspects of delegation, prioritization, time management in the workplace, communication, and group dynamics.

NURS 3410
Professional Standards of Nursing
1:1:0 On Sufficient Demand
- Prerequisite(s): NURS 2300
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 4300
Nursing Theory
2:2:0 F, Sp
- Prerequisite(s): NURS 3300
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.

NURS 4310
Nursing Research
3:3:0 F, Sp
- Prerequisite(s): NURS 3400
- Pre- 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.

**NURS 4320**  
Nursing in the Community  
2:0:6  
- Prerequisite(s): NURS 3400  
- Corequisites(s): NURS 4325  
Integrates professional nursing practice with community health practice to promote and preserve the health of populations. Incorporates the nursing process in the care of individuals, families, and groups in the community. Emphasizes the nursing role in health promotion and disease prevention. Reinforces communication, legal-ethical and professional considerations implicit in community nursing. Includes family and community assessments, epidemiological principles and implementation of illness prevention and health promotion programs within a community.

**NURS 4325**  
Nursing in the Community Clinical  
2:0:6  
- Corequisites(s): NURS 4320  
Integrates professional nursing practice with community health practice to promote and preserve the health of populations. Incorporates family and community assessments, epidemiological principles and implementation of illness prevention and health promotion programs within a community. Incorporates the nursing process in the care of individuals, families, and groups in the community.

**NURS 4330**  
Nursing in Health Systems and Policy  
3:3:0  
- Prerequisite(s): Acceptance into ASN/BS Nursing Program  
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.

**NURS 4400**  
Nursing Leadership  
2:2:0  
- Prerequisite(s): NURS 3330, NURS 4320  
- Corequisites(s): NURS 4405  
- Pre- 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 4405**  
Nursing Leadership Clinical  
2:0:6  
- Prerequisite(s): NURS 3330, NURS 4320  
- Corequisites(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 441G**  
Nursing in Global Perspective  
3:3:0  
- Prerequisite(s): NURS 3400 or Departmental approval  
Explores nursing and health care issues in a global perspective to promote culturally competent health care in a diversifying population.

**NURS 4420**  
Senior Seminar in Nursing  
3:3:0  
- Prerequisite(s): NURS 4300, NURS 4310, NURS 4320  
- Corequisites(s): NURS 4430  
Explores nursing and health care issues in a global perspective to promote culturally competent health care in a diversifying population.

**NURS 4430**  
Senior Project in Nursing  
1:1:0  
- Prerequisite(s): NURS 4300, NURS 4310, NURS 4320  
- Corequisites(s): NURS 4435  
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.

**NURS 4435**  
Senior Project in Nursing Clinical  
2:0:6  
- Prerequisite(s): NURS 4300, NURS 4310, NURS 4320  
- Corequisites(s): NURS 4430  
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. Project is completed in a clinical practice area during the clinical course, NURS 4435.

**NURS 489R**  
Undergraduate Research in Nursing  
1 to 4:0:5 to 20  
- Prerequisite(s): NURS 2410, Department approval.  
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  
- Prerequisite(s): NURS 2410  
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 up to 4 credits toward graduation.

**NURS 495R**  
Independent Study in Nursing  
1 to 3:0:3 to 9  
- Prerequisite(s): NURS 2410. Departmental approval  
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  
- Prerequisite(s): Admission into the Master of Science in Nursing (MSN) program or Department approval  
Provides opportunities for students to examine theories of leadership and the characteristics of effective leaders. Explores the meaning of leadership within the context of nursing practice and the leadership role of the graduate-level nurse. Facilitates exploration of individual leadership abilities and the development of leadership characteristics that enhance professional ability and credibility.

**NURS 6050**  
Nursing Informatics  
2:2:0  
- 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.

**NURS 6200**  
Advanced Nursing Theory  
2:2:0  
- 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
Course Descriptions

theory, knowledge, science, and evidence-based nursing practice. Facilitates the advancement of nursing practice based on theoretical principles.

NURS 6250
Advanced Nursing Research
3:3:0  Sp
- Prerequisite(s): Admission into the MSN program or Department approval
- Corequisites(s): NURS 6605; 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.

NURS 6300
Advanced Nursing in Health Systems and Policy
2:2:0  F
- 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  F
- Prerequisite(s): NURS 6000
Prepares students to transition from the primary care-giver 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.

NURS 6500
Curriculum Design and Development
3:3:0  Sp
- 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.

NURS 6600
Teaching Learning I Classroom Settings
2:2:0  Sp
- Corequisites(s): NURS 6605
- Pre- or Corequisite(s): NURS 6400
Focuses on applying teaching/learning skills 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. Provides practicum experience in the teaching/learning environment.

NURS 6700
Evaluation of Learning Outcomes
3:3:0  F
- Pre- 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 nursing education.

NURS 6800
Teaching Learning II Clinical Settings
2:2:0  F
- Corequisites(s): NURS 6805
- Pre- 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.

NURS 6900
Synthesis of Teaching Practice
1:1:9  Sp
- Prerequisite(s): NURS 6700; NURS 6905
Explores transition to the nurse educator role in academic and/or clinical settings.

NUTR 2020
Nutrition Through the Life Cycle
3:3:0  Su, F, Sp
- Corequisite(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.
Course Descriptions

PES 1086
Weight Training II
1:0.5:1.5
Su, F, Sp
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 11-12
• 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
Su, F, Sp
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
Su, F, Sp
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
Su, F, Sp
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
Sp
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
Su, F, Sp
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.

PES 1111
Racquetball II
1:0.5:1.5
F, Sp
Includes advanced skills, rules and strategies in singles, doubles and cut-throat 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
Su, F, Sp
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
Su, F, Sp
Designed to teach students advanced golf skills, rules, and strategies to be used in inter-class tournaments. Evaluates individual golf strengths and weaknesses. Emphasizes playing according to USGA rules. Taught on block only.

PES 1135
Archery I
1:0.5:1.5
F, Sp
For beginners. Covers basic concepts of archery, both for target shooting and field hunting. Includes use of re-curve 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.

PES 1136
Archery II
1:0.5:1.5
F, Sp
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.

PES 1145
Bowling I
1:0.5:1.5
F, Sp

PES 1146
Bowling II
1:0.5:1.5
F, Sp

PES 1155
Beginning Fencing
1:0.5:1.5
F, Sp
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.

PES 1200
Basketball I
1:0.5:1.5
F, Sp
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 1210
Volleyball I
1:0.5:1.5
F, Sp
Covers basic concepts of volleyball. Teaches fundamentals and rules of the sport. Introduces new skills such as sprawl and roll. Includes labs, lectures, audio-visual, practice and inter-class participation.

PES 1211
Volleyball II
1:0.5:1.5
F, Sp
Teaches advanced volleyball skills and team concepts for intermediate volleyball players. Reviews fundamentals and rules. Covers 6-person, 3-person, and 2-person volleyball. Includes labs, lectures, audio-visual, practice and scrimmages.

PES 1212
Volleyball III
1:0.5:1.5
F, Sp
Teaches volleyball skills and team concepts for advanced players. Briefly reviews fundamentals and rules. Teaches variable-size team competition. Includes labs, lectures, audio-visuals, practice, and scrimmages.

PES 1214
Volleyball Club Team
1:0:2
- Prerequisite(s): Instructor approval
For men's volleyball club team. Includes practice and competitive team play. Requires demonstrated advanced skills through try-outs. May be repeated once for credit.

PES 1230
Soccer I
1:0.5:1.5
F, Sp
Covers the basic concepts of soccer 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 1231 Soccer II 1:0.5:1.5
Expands upon and further develops the fundamental skills, techniques, tactics and rules from the Soccer I 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 (Federation Internationale de Football Association) and (United States Soccer Federation) USSF.

PES 1234 Soccer Club Team 1:0.5:1.5
- Prerequisite(s): Instructor approval
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 1234 Lacrosse Club Team 1:0.5:1.5
For men’s lacrosse club team. Presents an overview of the history of lacrosse. Includes practice and competitive team play. Requires demonstrated advanced skills through tryouts. May be repeated once for credit.

PES 1260 Ice Hockey 1:0.5:1.5
Teaches basic ice hockey skills including: skating (forwards, backwards, crossovers, spins, slides 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.

PES 1300 Swimming I 1:0.5:1.5
F, Sp
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.

PES 1301 Swimming II 1:0.5:1.5
F, Sp
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.

PES 1315 Water Aerobics 1:0.5:1.5
For students interested in an alternative aerobics class. Introduces aerobic conditioning principles designed to develop the cardiovascular - respiratory systems, strength, and coordination.

PES 1405 Women’s Safety Awareness and Self-Defense 1:0.5:1.5
Su,F,Sp
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 F, Sp
Introduces students to an ancient 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 increased 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
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, Jiujitsu, Muay Thai (kick boxing), Tai Chi, and self-defense strategies.

PES 1425 Jiujitsu I 1:0.5:1.5 F, Sp
A beginning class in the martial art of Jiujitsu with an emphasis on Russian Sambo Jiujitsu also known as Combat Jiujitsu. Learn the basics of Jiujitsu including: grappling, take downs, escapes, arm locks, etc.

PES 1426 Jiujitsu II 1:0.5:1.5
An intermediate class in the martial art of Jiujitsu. Practices and improves on the basics of Jiujitsu including: grappling, take downs, escapes, and arm locks.

PES 1435 Kenpo Karate I 1:0.5:1.5 Su, F, Sp
A beginning course in the martial art of Kenpo Karate. Introduces basic blocks, punches, strikes, and kicks. Emphasizes self defence techniques.

PES 1436 Kenpo Karate II 1:0.5:1.5 Su,F,Sp
- 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
F, Sp
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 F, Sp
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 F, Sp
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.

PES 200R Intercollegiate Athletics 1:0.5:1.5 F, Sp
- Prerequisite(s): Coach approval
May be repeated once for credit towards graduation.

PES 201R Elite Precision Team 1:0.5:1.5
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 F, Sp
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 Baseball and Softball 2:2:0 F
For students wishing to officiate in interscholastic, intramural, and community games. Teaches rules, techniques, problems and procedures in officiating. Gives National Federation or OSA examinations. Introduces softball/baseball 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.
Course Descriptions

PETE—PHYSICAL EDUCATION TEACHER EDUCATION

PETE 2100
Skill Analysis I
3:2:2
F
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 2200
Skill Analysis II
3:2:2
Sp
• 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.

PETE 2300
Skill Analysis III
3:2:2
F
• 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 games 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.

PETE 2400
Skill Analysis Capstone
1.0-5.2
• Prerequisite(s): PETE 2100, PETE 2200, PETE 2300
Reviews skills needed for successful demonstration in physical education classes. Lists cues for teaching various motor skills and movement concepts. Analyzes skill performances and game strategies.

PETE 289R
Early Undergraduate Research in Physical Education Pedagogy
1 to 4:0:5 to 20
• 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.

PETE 2200
Officiating Volleyball
2:2:0
F
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.

PETE 2300
Introduction to Fundamentals of Athletic Coaching
2:2:0
F, Sp
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.

PETE 2400
Sports Injuries
2:2:0
Sp
• 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.

PETE 281R
Cooperative Work Experience
2 to 9:1:5 to 40
Su, F, Sp
• 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.

PETE 3220
Teaching and Coaching Basketball
2:2:0
Sp
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.

PETE 3230
Teaching and Coaching Football
2:2:0
F
Prepares students for coaching football. Covers basic offensive and defensive philosophy and techniques. Covers organization, equipment, conditioning, and safety.

PETE 3240
Teaching and Coaching Volleyball
2:2:0
F
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.

PETE 3250
Teaching and Coaching Aerobics and Cheerleading
2:2:0
F, Sp
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.

PETE 3260
Teaching and Coaching Baseball and Softball
2:2:0
Sp
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.

PETE 4900
Exercise Science Senior Practicum
3:3:0
• Prerequisite(s): EXSC 3700, EXSC 4000, and EXSC 4100
Emphasizes application of physical activity promotion in a variety of settings. Options include service learning activities, assessing athletes, working in clinical settings that address assessment and exercise prescription in the elderly, cardiac and pulmonary rehabilitation, and outpatient physical therapy.
Course Descriptions

audience. May be repeated for a maximum of 6 credits toward graduation.

PETF 3100
Physical Education Pedagogy 3:2:2 Su, F, Sp
- Prerequisite(s): EXSC 270G, junior standing
- Pre- or Corequisite(s): PETE 2100
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.

PETF 3400
Elementary Classroom Teachers as Movement Educators 2:2:0 F, Sp
- Prerequisite(s): Admission to professional elementary education program or permission of instructor
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.

PETF 3450
Special Populations in Physical Education 3:2:3 Su, F, Sp
- Prerequisite(s): EDSP 3400, PETE 4210
Involves planning and conducting physical education programs for children with special needs. Incorporates hands-on experiences working with individual with special needs. Analyzes of a variety of possible adaptations for individuals with physical, sensory, emotional, and/or intellectual impairments.

PETF 4200
Methods of Teaching Elementary Physical Education 3:2:2 Su, F, Sp
- Prerequisite(s): PETE 3100
- Corequisite(s): PETE 4210
Promotes the analysis and development of elementary physical education curricula. Applies curricular concepts through reading, lecture/discussion, movement, self-appraisal, and teaching children. Applies educational principles and techniques necessary for effective teaching in the elementary school. Emphasizes appropriate selection of curriculum content and transition to teaching/learning models. Offers unit and lesson planning and evaluation.

PETF 4210
Elementary Physical Education Field Experience 1:0:3 Su, F, Sp
- Prerequisite(s): PETE 3100
- 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.

PETF 4250
Methods of Teaching Secondary Physical Education 3:2:2 Sp
- Prerequisite(s): PETE 4200 and PETE 4210, or permission of instructor
- Corequisite(s): PETE 4260
Promotes the analysis and development of secondary physical education curricula. Applies curricular concepts through reading, lecture/discussion, movement, self-appraisal, and teaching teenagers. Application of educational principles and techniques necessary for effective teaching in the secondary school. Emphasizes appropriate selection of curriculum content and transition to teaching/learning models. Involves unit and lesson planning and evaluation.

PETF 4260
Secondary Physical Education Field Experience 1:0:3 Su, F, Sp
- Prerequisite(s): EXSC 3550, PETE 3100, PETE 4200, PETE 4210, or permission of instructor
- Corequisite(s): PETE 4250
Analysis of secondary physical education curricula through guided observations and controlled teaching experiences. Applies curricular concepts through guided observation, self-appraisal, lesson/unit planning, and teaching secondary school students.

PETF 4400
Assessment in Physical Education 3:2:2 Su, F, Sp
- Prerequisite(s): MATH 1050, PETE 2300, PETE 4210
Examines traditional, alternative, authentic, and performance assessments as they relate to physical education. Encourages use of a variety of authentic assessment techniques. Creates appropriate methods for displaying and disseminating assessment results. Focuses on the use of both formative and summative assessment to enhance student learning. Exposes pre-service physical educators to both quantitative and qualitative research.

PETF 481R
Physical Education Teacher Education Internship 1 to 4:0 to 20 Su, F, Sp
- Prerequisite(s): PES 1097, EXSC 3500, EXSC 3550, PETE 2200, PETE 2300, PETE 3100
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 eight credits toward graduation. Graded Credit/No Credit.

PETF 489R
Undergraduate Research in Physical Education Teacher Education 1 to 4:0 to 20 Su, F, Sp
- Prerequisite(s): PETE 3100 and department approval of research proposal
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.

PETF 4900
Student Teaching Seminar for Physical Education 2:2:0 Su, F, Sp
- Prerequisite(s): Admission to Professional Education Program. Successful completion of all professional education and content courses.
- 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.

PHIL—PHILOSOPHY

PHIL 1000** Introduction to Philosophy 3:3:0 Su, F, Sp
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 Su, F, Sp
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 F, Sp
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 Logical Thinking and Philosophical Writing 3:3:0 F, Sp
Introduces fundamental elements of logical thinking and applies these to philosophical writing. Practices written applications of subjects and concepts such as (but not limited to) definition, argument, fallacy, deduction, validity, soundness, categorical syllogism, induction, causal argumentation, hypothesis, confirmation, and probability.
PHIL 130R
Ethics Forum
1:0:3
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 F, Sp
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, Bahai, 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 F, Sp
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 2050**
Ethics and Values
3:3:0 Su, F, Sp
- 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 (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.

PHIL 205H
Ethics and Values
3:3:0 F, Sp
- 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 2110
Ancient Greek Philosophy
3:3:0 F
- 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 Sp
- 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 Sp
- 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
- Prerequisite(s): By 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.

PHIL 290R
Directed Readings
1 to 3:0 to 12 Su, F, Sp
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 Deductive Logic
3:3:0 Sp
- Prerequisite(s): ENGL 1010 or PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
Covers the main systems of deductive (symbolic or formal) logic: Sentential and Syllogistic. Uses these systems to evaluate arguments, in natural (i.e., English) language. Includes symbolizations, truth-table analysis, truth-tree analysis, Venn diagrams, and proofs.

PHIL 3150
Philosophical Issues in Feminism
3:3:0 F
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
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
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or
## Course Descriptions

PHIL 2150 or permission of instructor  
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.  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
<th>Semester(s)</th>
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</thead>
<tbody>
<tr>
<td>PHIL 3200</td>
<td>Metaphysics</td>
<td>3:3:0</td>
<td>PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor</td>
<td>F</td>
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<tr>
<td>PHIL 3300</td>
<td>Epistemology</td>
<td>3:3:0</td>
<td>PHIL 1000 or PHIL 2050 or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor</td>
<td>Not 11-12</td>
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<tr>
<td>PHIL 3400</td>
<td>Philosophy of Science</td>
<td>3:3:0</td>
<td>PHIL 1000 or PHIL 2050 or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor</td>
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<tr>
<td>PHIL 3450</td>
<td>Philosophy of Childhood</td>
<td>3:3:0</td>
<td>PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor</td>
<td>Not 11-12</td>
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<td>PHIL 3470</td>
<td>Pragmatism and American Philosophy</td>
<td>3:3:0</td>
<td>PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor</td>
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<td>PHIL 3510</td>
<td>Business and Professional Ethics</td>
<td>3:3:0</td>
<td>PHIL 2050 or PHIL 205H or PHIL 205G or permission of instructor</td>
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<td>PHIL 3520</td>
<td>Bioethics</td>
<td>3:3:0</td>
<td>PHIL 2050 or PHIL 205H or PHIL 205G or permission of instructor</td>
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<td>PHIL 3530</td>
<td>Environmental Ethics</td>
<td>3:3:0</td>
<td>PHIL 2050 or PHIL 205H or PHIL 205G or permission of instructor</td>
<td>Sp</td>
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<td>PHIL 3540</td>
<td>Christian Ethics</td>
<td>3:3:0</td>
<td>PHIL 1610</td>
<td>Not 11-12</td>
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<td>PHIL 3550</td>
<td>Moral Philosophy</td>
<td>3:3:0</td>
<td>PHIL 2050, PHIL 205H, PHIL 205G, or permission of instructor</td>
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<td>PHIL 3560</td>
<td>Philosophy of Religion</td>
<td>3:3:0</td>
<td>PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor</td>
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<tr>
<td>PHIL 3600</td>
<td>Introduction to Christian Theology</td>
<td>3:3:0</td>
<td>PHIL 1610</td>
<td>Not 11-12</td>
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<tr>
<td>PHIL 3620</td>
<td>Mormon Theology and the Christian Tradition</td>
<td>3:3:0</td>
<td>PHIL 1610</td>
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<tr>
<td>PHIL 3650</td>
<td>Approaches to Religious Studies</td>
<td>3:3:0</td>
<td>PHIL 2050 or PHIL 205H or PHIL 205G or permission of instructor</td>
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<tr>
<td>PHIL 366R</td>
<td>Issues in Religious Studies</td>
<td>3:3:0</td>
<td>PHIL 2050 or PHIL 205H or PHIL 205G or permission of instructor</td>
<td>F</td>
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</tbody>
</table>

For students majoring in humanities-related disciplines and other students 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 traditional arguments for the existence of God, religious experience, the relation between faith and reason, religious pluralism, and the traditional problem of evil.
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 nine hours of credit.

PHIL 3700 Social and Political Philosophy 3:0
- Prerequisite(s): PHIL 2050 or PHIL 205H or PHIL 205G
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 3750 Marxist Philosophy 3:0
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
Examines the political philosophy of Karl Marx and looks at 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 Aesthetics 3:0
- Prerequisite(s): PHIL 2050 or PHIL 205H or PHIL 205G and HUM 1010 or HUM 101G or HUM 101H
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.

PHIL 3810 Existentialism and Phenomenology 3:0
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
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 Philosophy through Literature 3:0
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
Provides students with an interdisciplinary approach to the study of philosophy through literature. Includes reading of literature that grapples with philosophical questions and contributions of the great literary figures who engaged with these philosophical issues.

PHIL 386R Topics in Ancient Philosophy 3:0
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
Provides students the opportunity to study aspects of ancient Greek philosophy intensively. Focuses on an aspect of the thought of a particular philosopher, such as Plato or Aristotle, or on a particular theme in Ancient philosophy, such as Ethics or Metaphysics. Emphasizes close study of primary texts. Develops strong critical thinking, writing and rhetorical skills. May be repeated up to 3 times for a total of 9 credits.

PHIL 400R Great Philosophers 3:0
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
Provides an in-depth look at a great figure in philosophy across the topics of metaphysics, epistemology, ethics, social and political philosophy, aesthetics, and other themes. Addresses the contribution of the thinker to the history of Philosophy. Repeatable up to 12 credit hours with different topics.

PHIL 4120 Philosophy of Education 3:0
- Prerequisite(s): ENGL 1010 or PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
Examines history, issues, and philosophical theories of education with attention to associated philosophical, educational, ethical, political, and ideological assumptions.

PHIL 4130 Nineteenth Century European Philosophy 3:0
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
Explores the 19th century European philosophy regarding the nature of truth, knowledge, human freedom, and nature. Focuses on the attempts of German Idealism to formulate a systematic science of reality. Discusses the possibilities and problems with conceiving truth as both complete and absolutely knowable. Analyzes the philosophies of nature, art, human freedom, society, and ethics.

PHIL 4140 History of Analytic Philosophy 3:0
- Prerequisite(s): PHIL 2150 or permission of instructor
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 Frieder Waismann. Studies methods of movements such as Logical Empiricism, and Ordinary Language Philosophy. Explores views such as Logicism, Logical Atomism, Holism, Verificationism, Logical Behaviorism, Psychology, Nominalism, and Realism.

PHIL 4150 History of Continental Philosophy 3:0
- Prerequisite(s): PHIL 2150 or permission of instructor
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 3:0
- Prerequisite(s): PHIL 3000
Discusses the philosophical motivation for the formalization of logic. Introduces the metatheory for propositional and quantificalational logic. Includes proofs of the soundness and completeness of quantificalational logic. Discusses the philosophical issues surrounding the results proved. May also include some discussion of important results in computability.

PHIL 4470 Philosophy of Mind 3:0
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
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 3:0
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
### PHIL 450R
**Interdisciplinary Senior Ethics Seminar**
3:3:0  
- **F, Sp**  
- **Prerequisite(s):** Instructor consent  
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  
- **F**  
- **Prerequisite(s):** PHIL 2050 or PHIL 205H or PHIL 205G or permission of instructor  
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  
- **Prerequisite(s):** By 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.

### PHIL 490R
**Independent Study**
1 to 3:0 to 3:0 to 12  
- **Su, F, Sp**  
- **Prerequisite(s):** Departmental Approval  
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  
- **F, Sp**  
- **Prerequisite(s):** PHIL 1250 or PHIL 2110 or PHIL 2150, Senior 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**
1.0 to 3:1.0 to 3.0:0  
- **Sp**  
- **Prerequisite(s):** PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor  
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.

### PHSC—**PHYSICAL SCIENCE**

#### PHSC 1000
**Survey of Physical Science**
3:3:0  
- **Su, F, Sp**  
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
**Cooperative Work Experience**
2 to 3:1.5 to 40  
- **Su, F, Sp**  
- **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.

### PHYS—**PHYSICS**

#### PHYS 1010
**Elementary Physics**
3:3:0  
- **Su, F, Sp**  
- **Prerequisite(s):** MAT 1010  
For students interested in a one-semester survey physics course and students in Allied health programs. 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 1050
**Investigations of the Solar System**
3:3:0  
- **On Sufficient Demand**  
- **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.

#### PHYS 1060
**Investigations of Stars and Galaxies**
3:3:0  
- **On Sufficient Demand**  
- **PP**  
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.

### PHYS 1075
**Honors Cultural Astronomy in Our Lives Laboratory**
1:3:0  
- **On Sufficient Demand**  
- **Prerequisite(s):** Instructor permission required  
- **Corequisite(s):** PHYS 107H  
Studies ancient southwestern native astronomy in correlation with modern astronomy. Includes a four day trip to Hovenweep, Chaco Canyon, and Mesa Verde Anasazi sites.

#### PHYS 107H
**Cultural Astronomy in Our Lives**
3:3:0  
- **On Sufficient Demand**  
- **Corequisite(s):** PHYS 1075  
For those interested in learning about the astronomical realm around us and those having a special interest in anthropology. 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.

#### PHYS 1080
**Life in the Universe**
3:3:0  
- **PP**  
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.
Course Descriptions

PHYS 1700
Descriptive Acoustics
3:3:0
• 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
Energy You and the Environment
3:3:0
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 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
College Physics I
4:4:0
• Prerequisite(s): MAT 1010
• Corequisite(s): PHYS 2015
For students desiring a two semester algebra-based course in applied physics. Covers mechanics, fluids, heat, and thermodynamics.

PHYS 2015
College Physics I Lab
1:0:2
Designed to accompany PHYS 2010. Provides firsthand experience with the laws of mechanics, fluids, heat, thermodynamics, and data analysis.

PHYS 2020
College Physics II
4:4:0
• Prerequisite(s): PHYS 2010
• Corequisite(s): PHYS 2025

PHYS 2025
College Physics II Lab
1:0:2
Designed to accompany PHYS 2020. Provides firsthand experience with the laws of electricity, waves, optics, nuclear physics, and data analysis.

PHYS 2210
Physics for Scientists and Engineers I
4:4:1
• Prerequisite(s): MATH 1210
• Corequisite(s): PHYS 2215
A calculus-based treatment of introductory physics for scientists and engineers. Topics include mechanics, fluid physics, thermodynamics, vibrations, and waves. Includes 1 hour of recitation per week.

PHYS 2215
Physics for Scientists and Engineers I Lab
1:0:2
Designed to accompany PHYS 2210. Provides firsthand experience with the laws of mechanics, thermal physics, vibrations, and waves. Introduces methods of scientific data analysis.

PHYS 2220
Physics for Scientists and Engineers II
4:4:1
• Prerequisite(s): PHYS 2210, MATH 1220
• Corequisite(s): PHYS 2225

PHYS 2225
Physics for Scientists and Engineers II Lab
1:0:2
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.

PHYS 295R
Introduction to Independent Research
1 to 3:0:3 to 9
On Sufficient Demand
• Prerequisite(s): PHYS 2210, Departmental Approval
Working under faculty supervision, allows research on a project determined jointly with a faculty member and approved by the department chair. Emphasizes experimental technique, data collection, modeling, and analysis techniques. May be repeated for no more than six hours of elective credit.

PHYS 3010
Physics Experiments for Secondary Education
1:0:3
• Prerequisite(s): PHYS 2210, MATH 1050, MATH 1210, PHYS 2220, MATH 1060
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 3040
Modern Physics for Secondary Education
3:3:0
• Prerequisite(s): PHYS 2220
• Pre- or Corequisite(s): PHYS 3300 (recommended)
Covers principles of light, color, standing waves, interference, diffraction, and common waves commonly used in experimental physics laboratories. Includes ideas and methods for building inexpensive demonstrations and lab exercises.

PHYS 3050
Thermodynamics
3:3:0
• Prerequisite(s): PHYS 2220, MATH 2210
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 3740
Modern Physics
3:3:0
• Prerequisite(s): PHYS 2220
• Corequisite(s): MATH 2280
Addresses topics of special relativity, development of quantum mechanics, physics of the atom, elementary solid state physics, and elementary particle physics.

PHYS 3300
Principles of Electronics for the Physical Sciences
3:2:3
• Prerequisite(s): PHYS 2220, MATH 2210
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 3350
Mathematical Physics
3:3:0
• Prerequisite(s): MATH 2210
• Pre- 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 3400
Classical Mechanics
3:3:0
• Prerequisite(s): PHYS 2220
• Pre- 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
• Prerequisite(s): PHYS 2220, MATH 2210
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 389
Energy use on Earth
3:3:0
• Prerequisite(s): PHYS 1010 or PHSC 1000 or CHEM 1010 or GEO 1010 or GEO 2040 or METO 1010 and MATH 1050
Covers the science of energy production and consumption. Quantitatively analyzes various methods of energy production, distribution, and 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 analysis of data. Provides instruction in LabVIEW programming.

PHYS 295R
Introduction to Independent Research
1 to 3:0:3 to 9
On Sufficient Demand
• Prerequisite(s): PHYS 2210, Departmental Approval
Working under faculty supervision, allows research on a project determined jointly with a faculty member and approved by the department chair. Emphasizes experimental technique, data collection, modeling, and analysis techniques. May be repeated for no more than six hours of elective credit.

PHYS 3010
Physics Experiments for Secondary Education
1:0:3
• Prerequisite(s): PHYS 2210, MATH 1050, MATH 1210, PHYS 2220, MATH 1060
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 3040
Modern Physics for Secondary Education
3:3:0
Not 11-12
• Prerequisite(s): PHYS 2220, MATH 1220
Addresses topics of special relativity, development of quantum mechanics, physics of the atom, elementary solid state physics, and elementary particle physics.

PHYS 3210
Introduction to Experimental Physics I
2:1:3
• Prerequisite(s): PHYS 2210 or instructor's consent
Introduces selected experiments of classical and modern physics in a laboratory setting. Addresses topics of measurement, data analysis, report writing with an emphasis on modern instrumentation and computer assisted acquisition and analysis of data.

PHYS 3220
Introduction to Experimental Physics II
2:1:3
• Prerequisite(s): PHYS 3210
Introduces selected experiments of classical and modern physics in a laboratory setting. Addresses topics of measurement, data analysis, report writing with an emphasis on modern instrumentation and computer assisted acquisition using LabVIEW and analysis of data. Provides instruction in LabVIEW programming.

PHYS 3320
Principles of Electronics for the Physical Sciences
3:2:3
• Prerequisite(s): PHYS 2220, MATH 2210
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 3350
Mathematical Physics
3:3:0
• Prerequisite(s): MATH 2210
• Pre- 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 3400
Classical Mechanics
3:3:0
• Prerequisite(s): PHYS 2220
• Pre- 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
• Prerequisite(s): PHYS 2220, MATH 2210
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 3740
Modern Physics
3:3:0
• Prerequisite(s): PHYS 2220
• Corequisite(s): MATH 2280
Addresses topics of special relativity, development of quantum mechanics, physics of the atom, elementary solid state physics, and elementary particle physics.

PHYS 389
Energy use on Earth
3:3:0
• Prerequisite(s): PHYS 1010 or PHSC 1000 or CHEM 1010 or GEO 1010 or GEO 2040 or METO 1010 and MATH 1050
Covers the science of energy production and consumption. Quantitatively analyzes various methods of energy production, distribution, and 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 analysis of data. Provides instruction in LabVIEW programming.
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 **On Sufficient Demand**
- Prerequisite(s): PHYS 3740, BIOL 1610, or instructor approval
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 4210 Solid State Physics**
3:3:0 **Sp**
- Prerequisite(s): PHYS 3740, BIOL 1610, or instructor’s consent
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 **Su, F, Sp**
- Prerequisite(s): Department Approval
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 **Sp**
- Prerequisite(s): PHYS 3300
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.

**PHYS 4410 Electrostatics and Magnetism**
3:3:0 **F**
- Prerequisite(s): PHYS 3740, PHYS 3300
Explores the theory of electrostatic phenomena in a mathematically rigorous manner. Covers Gauss’ Law, the Laplace and Poisson equations, boundary-value problems, and dielectrics.

**PHYS 4420 Electrodynamics**
3:3:0 **Sp**
- Prerequisite(s): PHYS 4410

**PHYS 4510 Quantum Mechanics I**
3:3:0
- Prerequisite(s): PHYS 3740, PHYS 3300
Covers postulates of quantum mechanics, state functions of quantum systems, Hermitian Operators, the Schrodinger Equation, eigenfunctions of harmonic oscillators, and particles in potential wells.

**PHYS 4520 Quantum Mechanics II**
3:3:0 **Sp**
- Prerequisite(s): PHYS 4510
Covers general principles and applications of quantum mechanics. Addresses topics of three-dimensional problems, angular momentum operators, spin wavefunctions, perturbation theory, applications to atomic, molecular, solid-state, and nuclear physics.

**PHYS 4600 Optics**
3:3:0 **Sp**
- Prerequisite(s): PHYS 3740, PHYS 4410
Covers the phenomena of reflection, refraction, diffraction, interference, optical behavior in materials and lasers. Presents a mathematically rigorous description of optical phenomena. Includes lab experience.

**PHYS 4700 Acoustics**
3:3:0 **F**
- Prerequisite(s): PHYS 2220, MATH 2210
Covers phenomena of sound, resonance, acoustics, and human hearing. Treats associated topics of waves, frequency, vibration and interference using appropriate mathematical tools.

**PHYS 4800 Solid State Physics**
3:3:0 **Sp**
- Prerequisite(s): PHYS 3740, PHYS 4510
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.

**PHYS 4810 Physics Internship**
1 to 4:0:5 to 20 **Su, F, Sp**
- Prerequisite(s): PHYS 2220, Departmental Approval
Provides supervised, practical, and research experience for students preparing for careers in physics. May be repeated for a maximum of six credit hours.

**PHYS 489R Undergraduate Research in Physics**
1 to 4:0:5 **Su, F, Sp**
- Prerequisite(s): PHYS 2220, Departmental Approval
Working under faculty supervision, allows research on a project determined jointly with a faculty member and approved by the department chair. Emphasizes experimental technique, data collection, modeling, and analysis techniques. May be used as part of a senior thesis. May be repeated for a maximum of 9 credits toward graduation.

**PHYS 490R Seminar**
0.5:0:0.9 **F, Sp**
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.

**PHYS 492R Topics in Physics**
3:3:0 **On Sufficient Demand**
- Prerequisite(s): Departmental approval
Studies a chosen topic in physics. Topics vary depending upon student demand. Possible topic may be the mathematics for quantum mechanics. May be taken for a maximum of 6 credits toward graduation, but is limited to 3 credits for the BS in Physics.

**PHYS 495R Independent Readings**
1 to 3:3:0 to 9 **Su, F, Sp**
- Prerequisite(s): PHYS 2220, Departmental Approval
Includes independent study and/or laboratory work necessary. Culminates in the preparation of a written paper and oral presentation describing the results of the research project as required for PHYS 499B. May be taken concurrently with PHYS 499B.

**PHYS 499A Senior Project**
2:0:6 **Su, F, Sp**
- Prerequisite(s): Instructor and Departmental approval
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 as required for PHYS 499B. May be taken concurrently with PHYS 499B.

**PHYS 499B Senior Thesis**
1:3:0 **Su, F, Sp**
- Prerequisite(s): Instructor and Departmental approval
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.

**PJST—Peace and Justice Studies**

**PJST 3000 Introduction to Peace and Justice Studies**
3:3:0 **Su, F, Sp**
- Prerequisite(s): PHIL 2050
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.

PJST 3020
The Ethics of War and Peace
3:0 Su, F, Sp

- Prerequisite(s): PHIL 2050
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.

PJST 475R
Issues in Peace and Justice Studies
3:3

- Prerequisite(s): PHIL 2050 and Junior Standing
Presents a selected topic from current issues in the area of Peace and Justice Studies which will vary each semester. May approach topics from a cross-disciplinary perspective. Requires a project demonstrating competence in the specific topic or issue. May be repeated for a maximum of 6 credits toward graduation.

PJST 481R
Internship
1 to 8:0:5 to 40

- Prerequisite(s): Program Director's Approval
Provides opportunities for internship experience in the following types of agencies: political, governmental, corporate, private, news agencies or any non governmental organization (NGO) apart from regular employment. Encourages practical, research, and/or development experience in selected areas of service related to the student’s academic or professional goals relevant to peace and justice studies concerns. Requires supervision by an agency representative and approval of the Peace and Justice Studies internship adviser and the program director. Requires that written contracts be completed and signed by all responsible parties. 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. Graded Credit/No Credit.

PJST 4900
Peace and Justice Studies Capstone
3:3

- Prerequisite(s): ENGL 2010, Senior Standing
To be taken during the student’s last semester. Includes writing a senior thesis which points to career or graduate school goals. Requires a significant research project, which may coincide with field work and/or internship experience. Covers advanced Peace and Justice Studies research and writing instruction. Involves the creation of a portfolio helpful in applying to graduate schools or seeking employment.

PJST 491R
Independent Study
1 to 8:0:5 to 40

- Prerequisite(s): Approval of the Program Director
For self-directed students who wish to engage in a well-defined study or project in an area of special interest within the domain of Peace and Justice Studies. Requires individual initiative and responsibility with limited formal instruction and faculty supervision. Projects may include writing a publishable paper, giving an oral presentation, passing a competency exam, or completing any other options approved by the instructor and the program director. May be repeated for up to 9 credits toward graduation.

Course Descriptions

POLS—Political Science

- Prerequisite(s): Approval of the Program Director

POLS 1000
American Heritage
3:3:0 F, Sp
Studies the founding of American constitutional government. Considers the cultural, economic, legal, political, and social ramifications of the Constitution of the United States.

POLS 1010
Introduction to Political Science
3:3:0 F, Sp
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.

POLS 1020
Political Ideologies
3:3:0 F, Sp
Surveys the major historical and current political ideologies including liberalism, Marxism, fascism and Islamism.

POLS 1100
American National Government
3:3:0 AS, F, Sp
Studies history and structure of American National Government, rights and responsibilities of citizens, political institutions, political processes, and governmental policies.

POLS 1440
Introduction to Middle East Politics
3:3:0 Not 11-12
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.

POLS 1800
Our Global Community
3:3:0 Not 11-12
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.

POLS 2100
Introduction to International Relations
3:3:0 F, Sp
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.

POLS 2120
Political Parties
3:3:0 On Sufficient Demand

- Prerequisite(s): POLS 1100 or consent of instructor
Examines the American political party system with special attention given to the history, campaign strategies, and ideologies of American political parties.

POLS 2200
Introduction to Comparative Politics
3:3:0 F, Sp
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.

POLS 2250
Globalization and Sustainable Mountain Development
3:3:0
- Prerequisite(s): ENGL 1010
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.

POLS 230G
Introduction to Political Theory
3:3:0 F
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.

POLS 3000
Political Analysis
3:3:0 F

- Prerequisite(s): (MATH 1040 or MATH 1050) and POLS 1010
Covers the analytical and quantitative methodologies used in political science and public policy research. Includes statistical analysis, database research, and writing exercises.
Course Descriptions

POLS 3030  
State and Local Government  
3:3:0  
F  
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.

POLS 3100  
Survey of International Terrorism  
3:3:0  Sp  
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 Shi'ite 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.

POLS 3150  
US Presidency  
3:3:0  F  
Prerequisite(s): ENGL 1010  
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 policies and policies.

POLS 3180  
Public Opinion and Political Behavior  
3:3:0  F  
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.

POLS 3200  
US Congress  
3:3:0  On Sufficient Demand  
Prerequisite(s): ENGL 1010  
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.

POLS 3210  
World Diplomacy  
3:3:0  
Prerequisite(s): POLS 2100  
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  
Introduction to Law and Politics  
3:3:0  F  
Prerequisite(s): POLS 1010 or POLS 1100  
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  
3:3:0  F  
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  
3:3:0  On Sufficient Demand  
Prerequisite(s): POLS 1100 and POLS 2100  
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  
3:3:0  
Prerequisite(s): POLS 2100 or consent of instructor  
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  
3:3:0  F  
Prerequisite(s): ENGL 1010  
Introduces students to the region of Central Asia with its complex nature and origins of instability. Places regional conflicts to 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  
3:3:0  F  
Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor  
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  
3:3:0  F  
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  
3:3:0  Sp  
Prerequisite(s): POLS 2100  
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 3680  
International Political Economy  
3:3:0  Sp  
Prerequisite(s): POLS 2100  
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  
3:3:0  On Sufficient Demand  
Prerequisite(s): ENGL 1010 or ENGL 2020  
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  
3:3:0  Prerequisite(s): POLS 2100  
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  
3:3:0  Su, F, Sp  
Prerequisite(s): POLS 2100  
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  
3:3:0  F  
Prerequisite(s): POLS 1100, or POLS 1000, or by consent of instructor  
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, ...
PORT 1010
Beginning Portuguese I 4:4:1 F, Sp
- Prerequisite(s): PORT 900
- Course Description: Introduces basic Portuguese grammar and language concepts, literature and conversational exchanges.

PORT 1020
Beginning Portuguese II 4:4:1 F, Sp
- Prerequisite(s): Students need equivalent knowledge of PORT 1010
-Course Description: 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.

PORT 1050
Advanced Portuguese 3:3:0 F, Sp
- Prerequisite(s): Students need equivalent knowledge of PORT 1020
- Course Description: 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.

PORT 2010
Intermediate Portuguese I 4:4:1 F
- Prerequisite(s): PORT 1050
- Course Description: 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 202G
Intermediate Portuguese II 4:4:0 Sp
- Prerequisite(s): PORT 2010
- Course Description: Reviews and builds grammar, reading, and conversation skills learned in the first year courses.

PORT 3050
Advanced Portuguese 3:3:0 F, Sp
- Prerequisite(s): PORT 202G, one year residency in Portuguese-speaking country, or instructor approval
- Course Description: For non-native Portuguese speakers with a fairly good mastery of basic Portuguese. Focuses on advanced grammar and language concepts, literature and cultural readings. Includes a focus on oral proficiency.

PORT 3520
Brazilian Culture and Civilization 3:3:0 F
- Prerequisite(s): Students need equivalent knowledge of PORT 3050
- Course Description: 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.

PSY 1010**
General Psychology 3:3:0 F, Sp
- Course Description: 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.

PSY 101H
General Psychology 3:3:0 F
- Prerequisite(s): Students need equivalent knowledge of PSY 1010
- Course Description: 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
Human Development Life Span 3:3:0 F, Sp
- Prerequisite(s): Students need equivalent knowledge of PORT 3050
- Course Description: Explores human 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.

PSY 2250
Psychology of Interpersonal Relationships 3:3:0 F, Sp
- Prerequisite(s): ENGL 1010 and PSY 1010
- Course Description: 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.

PSY 2400
Positive Psychology 3:3:0 F
- Course Description: 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 275R
Survey of Current Topics
1 TO 3:0 TO 3:0 On Sufficient Demand
• Prerequisite(s): PSY 1010 or SOC 1010
  Presents selected topics 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 Su, F, Sp
• 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 F
• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
  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 F, Sp
• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
  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’.

PSY 3210
Adolescent Development 3:3:0 F, Sp
• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
  Focuses on physical, social, mental and emotional development of adolescents. Examines current research regarding optimal conditions for healthy maturation and separation/individuation from parents. Addresses adjustment problems, prevention, and remedies.

PSY 3220
Adult Development 3:3:0 Sp
• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
  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 Su, F, Sp
• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
  Foundation course for psychology majors. Examines the psychology of abnormal behavior, historical explanations and current biological and psychological theories of abnormal behavior. Emphasizes the descriptive content of disorders according to the American Psychiatric Association Diagnostic and Statistical Manual (DSM IV-R).

PSY 3420
Learning Memory and Cognition 3:3:0 Su, Sp
• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
  Introduces students to the core concepts of learning, memory, and cognition. 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 Sp
• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
  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.

PSY 3450
Physiological Psychology 3:3:0 F
• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020) Recommended ZOOL 1090 or higher.
  Identifies major interactions between physiology and behavior. Covers physiological analysis, structures, and functions of the nervous system. Investigates topics including sensory and motor function, states of consciousness, sexual behavior, psychopathology, learning and memory.

PSY 3460
Personality Theory 3:3:0 Su, F, Sp
• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
  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.

PSY 3470
Dynamics of Addiction 3:3:0
• Prerequisite(s):PSY 1010, ENGL 1010 with a C+ or higher
  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.

PSY 3500
Social Psychology 3:3:0 Su, F, Sp
• Prerequisite(s): PSY 1010 or SOC 1010 and (ENGL 2010 or 2020 with a C+ grade or higher)
  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.

PSY 3510
Psychology Applied to Modern Life 3:3:0
• Prerequisite(s): PSY 1010 and (ENGL 2010 or 2020 with a C+ grade or higher)
  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 3520 (Cross-listed with: ENST 3520)
Environmental Psychology 3:3:0 F
• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ or higher)
  Studies the relationship of behavior and experiences within artificial and natural environments. Provides perspectives and problems specific to the field. Analyzes psychological research as it applies to humans and the environment. Service learning course with community-based research.

PSY 3710
Introduction to Forensic Psychology 3:3:0 Su, F, Sp
• Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ or better) and (PSY 3400 or PSY 3500 with a C- or better)
  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.
Course Descriptions

PSY 3850 Psychology of Good and Evil
3:0 Su, F, Sp
- Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher)
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
3:0 Sp, Su, F
- Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and BESC 3010 and BESC 3020
Explores various experimental research designs (true experimental and quasi-experimental), emphasizing application and evaluation. Students will be required to conduct an original psychological experimental research project.

PSY 4150 Tests and Measurements
3:0 On Sufficient Demand
- Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and BESC 3010
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
3:0 Su, F, Sp
- Prerequisite(s): (PSY 1010 or SW 1010) and PSY 3400 and (ENGL 2010 or ENGL 2020)
Surveys concepts and practices of major therapeutic systems. Introduces students to the major psychotherapeutic models. Addresses basic counseling issues including ethics and professionalism. Develops skills in relationship development, interviewing, initial assessment and intake procedures.

PSY 4500 History and Systems of Psychology
3:0 On Sufficient Demand
- Prerequisite(s): PSY 1010 and (ENGL 2010 or 2020)
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
3:0 F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
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 3:0 On Sufficient Demand
- Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher)
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 a maximum of six credits.

PSY 490R Independent Studies
1 to 3:0 On Sufficient Demand
- Prerequisite(s): For Behavioral Science Bachelor Degree students only. Must have the approval of the instructor and the 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, 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.

REC 1350 Scuba Diving I
1.0:5.1.5 Su, F, Sp
Teaches basic scuba diving techniques, scuba safety and use of scuba equipment in an indoor swimming pool. To certify in scuba, the student must certify independently of the course. Open Water Certification is offered as an option. Uses the Professional Association for Diving Instructors manual. Taught on block only.

REC 1351 Scuba Diving II
1.0:5.1.5 Su, F, Sp
- 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.

REC 1500 Canoeing I
1.0:5.1.5 Su, F, Sp
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.

REC 1501 Canoeing II
1.0:5.1.5 Su, F, Sp
- Prerequisite(s): REC 1500 or Instructor Permission
Prepares students to qualify to become instructors who will teach on water up to and including Class IV 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 Su, Sp
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.

REC 1506 Whitewater Kayaking II
1.0:5.1.5 Su, F, Sp
- 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 Su, F, Sp
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.

REC 1513 Fly Casting I
1.0:5.1.5 Su, F, Sp
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.

REC 1516 Ropes Course and Teambuilding
1.0:5.1.5 Su, F, Sp
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
Course Descriptions

III - Ropes Course activities/individual challenge which allows class members to test their physical capabilities and individual limits.

**REC 1521**
**Indoor Rock Climbing I**
1:0.5:1.5 S, F, Sp
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.

**REC 1522**
**Indoor Rock Climbing II**
1:0.5:1.5 S, F, Sp
- 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 and red point techniques.

**REC 1525**
**Mountaineering**
1:0.5:1.5 S, F, Sp
- 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.

**REC 1527**
**Rock Climbing I**
1:0.5:1.5 S, F, Sp
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.

**REC 1528**
**Rock Climbing II**
1:0.5:1.5 S, F, Sp
- 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.

**REC 1529**
**Rock Climbing III**
2:2:0 Not 11-12
- 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 F, S, Sp
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.

**REC 1532**
**Backpacking**
1:0.5:1.5 S, F, Sp
- Prerequisite(s): Ability to carry a 40 lbs pack for 15-25 miles
Covers the basics of backpacking, 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.

**REC 1542**
**Wilderness First Responder**
2:2:0 F, Sp
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 S, F, Sp
- 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. Stress the enjoyment and lifetime benefits of mountain biking riding. Taught on block only.

**REC 1560**
**Skiing I**
1:0.5:1.5 Sp
For the beginning skier. Covers basic skiing concepts including straight runs, stops, turns, traverses, and beginning parallel. Includes introduction and participation. Grading is based on attendance. Lessons are at the Sundance Ski Resort. (Transportation is provided.) Uses UVU and Sundance instructors. Students are required to have their own equipment and purchase a half-day pass each ski day.

**REC 1605**
**Skiing II**
1:0.5:1.5 Sp
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 introduction and participation. Grading is based on attendance. Lessons are at the Sundance Ski Resort. (Transportation is provided.) Uses UVU and Sundance instructors. Students are required to have their own equipment and purchase a half-day pass each ski day.

**REC 1607**
**Skiing III**
1:0.5:1.5 Sp
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 F, Sp
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 Sp
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 Sp
Presents 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 F, Sp
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.

**REC 2200**
**Foundations of Recreation**
3:3:0 S, F, Sp
- Prerequisite(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.
Course Descriptions

REC 2400 Principles of Experiential Education in Recreation 3:3:0 Su, F, Sp
- Prerequisite(s): REC 2200, ENGL 1010
- Pre- 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 Su, F, Sp
- Prerequisite(s): REC 1527, REC 2400

Teaches top-rope 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-rope 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 11-12

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.

REC 2600 Principles of Outdoor and Adventure Education 3:3:0 Su, F, Sp
- Prerequisite(s): 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.

REC 2650 Principles of Challenge Education 3:3:0 Su, F, Sp
- 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.

REC 2700 Leave No Trace Trainer 1:1:0 Sp
- 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.

REC 2750 Principles of Water-Based Adventure Education 3:3:0 Su, F, Sp
- 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 3000 Recreation Program Planning 3:3:0 Sp
- Prerequisite(s): REC 2200 or instructor approval
- Pre- 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 3050 Recreation Administration 3:3:0 Su, F, Sp
- Prerequisite(s): REC 3100

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 3500 Resource Interpretation 3:3:0 Sp
- Prerequisite(s): REC 2400

Investigates theories, principles, and techniques of interpreting park, cultural, and natural resources to the public.

REC 385G Ethical Concerns in Recreation 3:3:0 Su, F, Sp
- Prerequisite(s): REC 2400, PHIL 2050

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 Sp
- Prerequisite(s): REC 1535, REC 3300, REC 2600, REC 1542

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.
Provides mentoring during the internship search process.

**REC 481R**
**Senior Internship**
1 to 8:0:5 to 40  Su, F, Sp
- Prerequisite(s): REC 4800, REC 420R, REC 3400, REC 3500 and 80 credit hours completed. Minimum 2.5 GPA and approval of the instructor. 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.

**REC 489R**
**Undergraduate Research in Recreation**
1 to 4:0:5 to 20  Su, F, Sp
- Prerequisite(s): REC 2200, Departmental approval of research proposal. 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  Su, F, Sp
- Prerequisite(s): REC 2200 or Instructor Permission. 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 Philosphic Issues in Recreation, among others. May be repeated for up to 6 credits toward graduation.

**REC 4950**
**Senior Seminar**
2:2:0  Su, F, Sp
- Prerequisite(s): REC 3850, Senior 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.

**RLST—RELIGIOUS STUDIES**

**RLST 3540** (Cross-listed with: PHIL 3540)
**Christian Ethics**
3:3:0  Not 11-12
- Prerequisite(s): PHIL 1610. 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
- Prerequisite(s): PHIL 1610. Examines key developments and conceptions in Christian theology through historical and conceptual methodologies.

**RLST 3620** (Cross-listed with: PHIL 3620)
**Mennonite Theology and the Christian Tradition**
3:3:0
- Prerequisite(s): PHIL 1610. 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.

**RLST 4300**
**Teaching Assistantship in Outdoor Recreation**
1 to 4:1 to 4:0  Su, F, Sp
- Prerequisite(s): Instructor Approval. 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.

**RLST 4400**
**Park and Protected Area Management**
3:3:0  Su, F, Sp
- Prerequisite(s): REC 3400 or REC 3500. Examines topics in the management of parks, forest, and other protected areas focusing on management strategies and techniques for addressing common resource and social problems in recreation resource management. Emphasizes case studies and problem analysis.

**RLST 4500**
**Visitor Behavior**
3:3:0  Su, F, Sp
- Prerequisite(s): REC 4400. Studies behaviorally-based models and relevant research in outdoor recreation. Provides an in-depth literary analysis of visitor behavior topics including visitor satisfaction, crowding, carrying capacity, motivations, attitudes, preferences, norms, conflicts, and specialization. Using these theoretical concepts, visitor-based management models will be presented and criticized.

**RLST 4800**
**Pre-Internship Seminar**
1:1:0  Su, F, Sp
- Prerequisite(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.
teaching methods. Completers should be able to communicate enough to visit or work in a Russian speaking country.

RUS 2010 Intermediate Russian I 4:4:1 LH F
- Prerequisite(s): Students need equivalent knowledge of RUS 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 Russia, maintaining a focus on oral proficiency.

RUS 202G Intermediate Russian II 4:4:0 HH Sp
- 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.

RUS 3050 Advanced Russian 3:3:0 LH F, Sp
- 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.

RUS 3200 Business Russian 3:3:0 On Sufficient Demand
- Prerequisite(s): RUS 3050
Teaches Russian business terminology and prepares students to take the Business Russian Proficiency Tests sponsored by the Russian Chamber of Commerce.

RUS 3520 Russian Culture and Civilization 3:3:0 On Sufficient Demand
- Prerequisite(s): RUS 3050 or equivalent is required
Explores chronologically the evolution and development of Russia, and a multitude of aspects that construct Russian national identity. Completers should acquire an understanding of contemporary issues, ethnic and economic development of Russia, as well as historical interdependence with other nations. Presentations and class instructions conducted entirely in Russian.

RUS 4110 Translation and Interpretation 3:3:0 On Sufficient Demand
- Prerequisite(s): RUS 3050 or equivalent
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.

SOC—SOCIOLOGY

SOC 1010 ** Introduction to Sociology 3:3:0 Su, F, Sp
Studies and compares social groups and institutions and their interrelationships. Includes culture, socialization, deviance, stratification, race, ethnicity, social change, and collective behavior.

SOC 101H Introduction to Sociology 3:3:0 Sp
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 Su, F, Sp
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 Su, F, Sp
Studies the family from a sociological perspective. Covers historical and developmental patterns of courtship and marriage, dual careers, sexual adjustment, parenting, divorce, step families, and bereavement. Stresses personal values and the application of theories to individual situations.

SOC 2370 Gender Roles 3:3:0 On Sufficient Demand
- Prerequisite(s): ENGL 1010
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 3:0 to 3:0 On Sufficient Demand
- Prerequisite(s): ANTH 101G or PSY 1010 or SOC 1010 and ENGL 1010 with a C+ grade
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 3000 Contemporary Social Theory 3:3:0 F, Sp
- Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
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 Su, F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
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 3310 Classical Social Theory 3:3:0
- Prerequisite(s): (ENGL 2010 or 2020 with a minimum C+ grade) and SOC 1010
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 On Sufficient Demand
- Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
Examines religion from a sociological perspective. Analyzes religion as a social phenomenon. Discusses religious organizations, religion and politics, and religion and social class.

SOC 3430 Sociology of Education 3:3:0 F, Sp
- Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
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 3450 Environmental Sociology 3:3:0 Sp
- Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
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 cultural values and how these institutions’ values can create and perpetuate unsustainable practices.
SOC 3460 Political Sociology 3:3:0 F
- Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
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
- Prerequisite(s): ENGL 2010 or ENGL 2020 with a minimum C+ grade and SOC 1010
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).

SOC 3560 Sociology of Deviance 3:3:0 F
- Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
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 Su, Sp
- Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
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 4020 Survey Research Design 3:3:0 Sp, Su, F
- Prerequisite(s): ENGL 2010 or ENGL 2020 with a C+ grade or higher and BESC 3010 and BESC 3020
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): SOC 1010 and (ENGL 2010 or ENGL 2020)
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): SOC 1010 and (ENGL 2010 or ENGL 2020 with a minimum grade of C+)
Presents selected topics in Sociology and will vary each semester. Requires a project demonstration competency in the specific topic. May be repeated three times with different topics.

SOC 490R Independent Studies 1 to 3:1 to 3:0 On Sufficient Demand
- Prerequisite(s): For Behavioral Science Bachelor Degree students only. Must have the approval of the instructor and the 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, 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.

SPAN 1010 Beginning Spanish I 4:4:1 F, Sp, Su
- 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.

SPAN 2010 Intermediate Spanish I 4:4:1 F, Sp, Su
- Prerequisite(s): Students need equivalent knowledge of SPAN 202G
Explores communicative skills in Spanish. Provides students with the opportunity for students to improve language learning skills along with basic grammar, vocabulary, and verb conjugations, all within the cultural context of modern Hispanic societies. Uses an eclectic method of instruction, emphasizing conversational exchanges. Requires oral and written response.

SPAN 202G Intermediate Spanish II 4:4:0 F, Sp, Su
- Prerequisite(s): Students need equivalent knowledge of SPAN 202G
Explores communicative skills in Spanish. Provides students with the opportunity for students to improve language learning skills along with basic grammar, vocabulary, and verb conjugations, all within the cultural context of modern Hispanic societies. Uses an eclectic method of instruction, emphasizing conversational exchanges. Requires oral and written response.

SPSC 281H National Honors Study Topic 3:3:0 Sp
Sponsored and promoted by Phi Theta Kappa, national organization. Designed for an intellectual pursuit of National Honors Study topic. Discussion topic changes annually. Deals with current international issues that impact society and the quality of life. Students research and discuss the topic from several different perspectives and develop a knowledge base from which to formulate their own ideas.
Course Descriptions

SPAN 3040  
Spanish Conversation and Composition II  
3:3:0  
Sp  
- Prerequisite(s): SPAN 202G or equivalent  
Explores communicative skills in Spanish. Provides opportunities 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  
Su, F, Sp  
- 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 together will be somewhat equivalent to SPAN 3050.)

SPAN 3060  
Oral Proficiency  
1:1:0  
F, Sp  
- Pre-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 3200  
Business Spanish  
3:3:0  
F, Sp  
- Prerequisite(s): SPAN 3050  
For those who plan to pursue careers in international business or related fields, learn the business language for Spanish, understand Spanish speaking cultures, or plan to major or minor in Spanish. Teaches Spanish business terminology and prepares students to take the Certificado de Espanol Comercial basico examination. Presents the role of Latin America and Spain in a global economy. Explores how students can effectively do business with Latin American and Spanish companies within the framework of Hispanic cultures. Includes current materials dealing with today’s issues. Will be taught entirely in the Spanish language.

SPAN 3220  
Pronunciation Phonetics and Phonology  
3:3:0  
Sp  
- Prerequisite(s): SPAN 3050  
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 3510  
Culture and Civilization--Spain  
3:3:0  
F  
- Prerequisite(s): SPAN 3050 or equivalent  
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 3520  
Culture and Civilization--Spanish America  
3:3:0  
Sp  
- Prerequisite(s): SPAN 3050  
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  
F  
- Prerequisite(s): (SPAN 3030 and SPAN 3040) or (SPAN 3050 or equivalent)  
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  
Sp  
- Prerequisite(s): (SPAN 3030 and SPAN 3040) or (SPAN 3050 or equivalent)  
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.

SPAN 3630  
Spanish American Literature to 1880  
3:3:0  
Sp  
- Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050  
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  
F  
- Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050  
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 3800  
Community Engagement in Spanish  
3:1:6  
Su, F, Sp  
- Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050 or instructor approval  
Offers students the opportunity to volunteer in projects involving the local Hispanic community. Addresses the linguistic and cultural aspects of community volunteering. Requires a minimum of six hours of volunteering weekly in hospitals, schools, clinics, social service agencies, or civic organizations. Repeatable for a maximum 6 hours credit toward graduation.

SPAN 4100  
Teaching Spanish Grammar  
3:3:0  
Sp  
- Prerequisite(s): Admission to a Secondary Education teacher licensure program or departmental approval; (SPAN 3030 and SPAN 3040) or SPAN 3050  
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  
F  
- Prerequisite(s): SPAN 4050  
Introduces translation as a discipline. Discusses basic theory, 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.

SPAN 412R  
Spanish for the Professions  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): SPAN 3050 or departmental approval  
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 six credits toward graduation with different topics.
Course Descriptions

SPAN 4130 English Spanish Interpretation for the Community
3:1:6 Su, F, Sp
Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050
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 F, Sp
Prerequisite(s): SPAN 3200
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

SPAN 4410 Spanish Linguistics
3:3:0 Su, F, Sp
Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050
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-disciplines of linguistics applied to Spanish. Phonetics and Phonology, Morphology, Syntax, Semantics, Sociolinguistics, the History of the Language, Dialectology and Pragmatics.

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
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
Examines the literature of Spain from the XVI and XVII centuries. Addresses key texts representative of the social, historical, political, and metaphysical 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
3:3:0 On Sufficient Demand
Prerequisite(s): SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640
Introduces the major works of Spanish authors in the latter part of the 20th and early 21st centuries. Involves students in close reading and textual analysis through class discussion, written projects, examinations, and oral presentations. Conducted entirely in Spanish.

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
Introduces the major works of Spanish American writers in the latter part of the 20th and early 21st centuries. Involves 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
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.

SURV 1020 Introduction to Geomatics
1:1:0 F, Sp
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. Teaching college success principles and practices for the Geomatics program.

SURV 2030 Surveying US Public Lands
3:3:0 F
Prerequisite(s): EGDT 2400, MATH 1060
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.

SURV 2210 Photogrammetry and Remote Sensing
3:3:0 F
Prerequisite(s): EGDT 2400, MATH 1050, SURV 2030
Examines principals of photogrammetry and remote sensing as applied to surveying and mapping. Covers geometry of vertical and aerial photographs, stereoscopic parallax, geometry of tilted photographs, stereoplotter mapping, close-range photographic 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.

SURV 2310 Surveying Utah
3:3:0 Sp
Prerequisite(s): EGDT 2400, MATH 1060
Studies surveys of Utah such as territorial, state, and Mexican land grants, as well as state and national boundaries.
of bearing and interpretation, easements, and reversions. Applies practical exercises and case studies.

SURV 2360 Public Land Records
2:2:0 F
- Prerequisite(s): EGDT 1400
Studies the responsibilities of the professional land surveyor regarding due diligence in searching public land records and performing applicable legal research. Examines public 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
3:3:0 Sp
- Prerequisite(s): EGDT 2400, MATH 1060, MATH 1100, MATH 2040, SURV 1020
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-variiances 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.

SURV 3030 Land Development Planning and Plating
3:3:0 Sp
- Prerequisite(s): EGDT 1040 and EGDT 1400
Discusses land use planning techniques for residential and commercial developments. Studies subdivisions, condominiums, cluster housing, industrial parks, and commercial complexes along with the associated governmental regulations and approval processes and procedures. Requires a mock public presentation on course projects. Uses current surveying/engineering software to solve and plot assignments in traverse calculations, horizontal and vertical curve alignments, profiles, subdivision plats, and calculations which supplement the Coordinate Geometry (COGO) calculations.

SURV 3220 Control Surveys
3:3:0 F
- Prerequisite(s): SURV 3010, SURV 2030, EGDT 2400
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, triangulation, and precision traverses with precise elevation control. Demonstrates field skills and techniques is required.

SURV 3230 Construction and Route Surveys
3:3:0 Sp
- Prerequisite(s): SURV 3220
Applies principles and theories presented in prerequisite courses and moves the student to an advanced 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.

SURV 3340 Boundary Law
3:3:0 F
- Prerequisite(s): SURV 2310, SURV 2320
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 locating an existing boundaries.

SURV 4340 Surveying Legal Principles
3:3:0 Sp
- Prerequisite(s): SURV 2360, SURV 3330
Focuses on researching the total 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. Reviews research techniques and sources including county surveyor's offices and other governmental agencies. Requires working on case studies and preparing a final legal research paper. Involves tour(s) of a law library.

SURV 4500 Surveying Practice
4:4:0 F
- Prerequisite(s): Senior Standing, ACC 3000 or ACC 2030 or ACC 210 and ACC 220, LEGL 3000, SURV 4340
- Corequisite(s): SURV 455G
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.

SURV 451R Geomatics Lecture Series
0.5 to 1.0 S to 1: 0 F, Sp
- Prerequisite(s): Department Chair Approval
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 F
- Prerequisite(s): Senior Standing
- Corequisite(s): SURV 4500
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 8.5 to 40 On Sufficient Demand
- Prerequisite(s):Online Internship Orientation, Junior or Senior Standing, and departmental written approval
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. Graded Credit/No Credit.

SURV 490R Professional Topics in Geomatics
2 to 3:2 to 3:0 On Sufficient Demand
- Prerequisite(s): Department Chair Approval
Studies a chosen topic in Geomatics. The topic may vary depending on demand. May be taken more than once for different topics and for a maximum of six credits toward graduation.

SURV 4920 Senior Geomatics Project
4:4:0 F
- Prerequisite(s): Senior Geomatics Project
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.

SW—Social Work

SW 1010 Introduction to Social Work 3:3:0
Introduces social work theory and practice. Examines the relationship between theory 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 275R Survey of Current Topics 3:3:0
On Sufficient Demand
Prerequisite(s): (ANTH 101G or PSY 1010 or SOC 1010 or SW 1010) and ENGL 1010
Presents selected topic in Social Work and will vary each semester. Approaches subjects 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.
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 3100 Social Work Practice II 3:3:0
Prerequisite(s): Admission to the BSW program, and SW 3000
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): Admission into the BSW program, SW 3000, and SW 3100
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 3300 Human Behavior and the Social Environment I 3:3:0
Prerequisite(s): Admission into the BSW program. Presents major theoretical concepts about human development and environmental factors influencing development from the social and behavioral sciences and their applications to micro, mezzo, and macro social work practice. Focuses on the first half of the life cycle, the prenatal period through adolescence. The first in a two course human behavior and the social environment sequence.

SW 3400 Human Behavior and the Social Environment II 3:3:0
Prerequisite(s): Admission into the BSW program and SW 3300
Presents major theoretical concepts about human development and environmental factors influencing development from the social and behavioral sciences and their applications to micro, mezzo, and macro social work practice. Focuses on the second half of the lifecycle, young adulthood through older adulthood.

SW 3500 Social Welfare Policies and Services 3:3:0
Prerequisite(s): Admission into the BSW program.
Analyzes current social policy within the context of historical and contemporary factors that shape policy. 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 2020 with a C+ grade, and SW 1010
Investigates ways in which micro and macro skills can be integrated via a social development model to address social welfare issues in international settings. Includes the development of interventions beginning at the community level and moving toward global as well as individual practice. Focuses on the enhancement of practice knowledge and skills in program design, development, 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.
Acquaints students with the values of the field of social work and the Code of Ethics of the National Association of Social Workers and to help them begin to develop the ability to effectively deal with the ethical issues they will be confronted with in professional practice. Increases students awareness of new and emerging ethical issues and provide tools and methodologies for ethical decision-making.

SW 371G Diversity Issues in Social Work Practice 3:3:0
Prerequisite(s): Admission into the BSW program.
Addresses ethical dilemmas involving conflict between personal values, agency guidelines, professional standards, and cultural differences. Includes discussion of models for ethical decision-making, the NASW Code of Ethics, as well as the codes of ethics of other human services professional organizations.

SW 3750 Child Abuse/Neglect and Domestic Violence 3:3:0
Prerequisite(s): SW 1010 and PSY 1100 and PSY 3400
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 4400 Introduction to Group Psychotherapy 3:3:0
Prerequisite(s): (PSY 1010 or SW 1010) and PSY 3400 and (ENGL 2010 or ENGL 2020)
Discusses group therapy theory, research applied to client assessment and outcomes, legal and ethical issues. Includes screening, assessment, treatment, evaluation, and termination of group members.

SW 4500 Crisis Intervention 3:3:0
Prerequisite(s): SW 1010 and (ENGL 2010 or ENGL 2020 with a minimum C+ grade) or instructor permission
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.
Course Descriptions

**SW 4600**
The DSM of Mental Disorders  
3:0 F, Sp  
- Prerequisite(s): SW 1010 and PSY 3400 and ENGL 2010 or ENGL 2020 to grade C+ or higher.
Provides a generalist base for social work practice in the on-site field practicum. 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 nine credits toward graduation.

**SW 4700**
Case Management in Social Work Practice  
3:0 F, Sp  
- Prerequisite(s): SW 1010 and PSY 3400 and senior in Behavioral Science program.
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  
3:0 F, Sp  
- Prerequisite(s): SW 1010 and (ENGL 2010 or ENGL 2020).
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 nine credits toward graduation.

**SW 4800**
Integrated Seminar I  
2:2:0 F, Sp, Su  
- Prerequisite(s): Senior Standing in the BSW program, SW 3000, and SW 3100.
- 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.

**SW 481R**
Integrated Seminar II  
2:2:0 F, Sp  
- Prerequisite(s): Senior Standing in the BSW program, and SW 4800 with B- or better.
- 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.

**SW 4850**
Integrated Seminar II  
2:2:0 F, Sp  
- Prerequisite(s): SW 1010 and PSY 3400 and senior in Behavioral Science program.
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.

**SW 490R**
Independent Studies  
1 to 3:1 to 3:0 On Sufficient Demand  
- Prerequisite(s): For Behavioral Science Bachelor Degree students only. Must have the approval of the instructor and the 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 unlimited 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 six credits.

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**TECH—TECHNOLOGY MANAGEMENT**

**TECH 1000**
Experiential Credit Portfolio Development and Assessment  
2:2:0 F, Sp  
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 F, Sp, Su  
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.

**TECH 110R**
Technical Experiential Credit  
1 to 8:0:3 to 24 Su, F, Sp  
- 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 F, Sp  
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.

**TECH 2010**
Supervision in Technology  
3:3:0 On Sufficient Demand  
Provides a generalist base for social work practice in the on-site field practicum. Presents various techniques of supervision in a technology-based organization. Teaches how to build teams to address technological issues, inspire good performance, communicate with employees using technological tools, lead change caused by technological transformation, and resolve ethical issues related to the use of technology. Applies skills to real-life situations. Teaches how to understand the organizational structure, be prepared to manage and assess technology-based performance, be aware of opportunities and challenges when managing employees in a technological environment, and how to get the best performance out of employees, including strategies for technical training and evaluation.

**TECH 3000**
Introduction to Technology Management  
3:3:0 F, Sp, Su  
- Prerequisite(s): Sophomore standing and ENGL 1010.
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, futures 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.

**TECH 3010**
Creativity Innovation and Change Management  
3:3:0 F, Sp  
- Prerequisite(s): Sophomore standing and ENGL 1010.
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. Examines

**TECH 301R**
Technology Lecture Series  
1:1:0 F, Sp  
- Prerequisite(s): ENGL 2010 or ENGL 2020.
Presents lectures from external speakers in various technology related subjects. Requires a written reaction paper for most of the lectures. May be repeated for a maximum of 2 credits toward graduation.

**TECH 3400**
Project Management  
3:3:0 F, Sp, Su  
- Prerequisite(s): Computer Literacy and (TECH 3000 or INFO 3430 or CMGT 2030).
Teaches the fundamental principles, processes, and techniques of project management. Includes a systems approach to planning, scheduling, and controlling projects. Focuses on effective processes for managing projects across multiple disciplines/industries and varying management structures. Introduces project management tools that can be
used to guide and manage individual and multiple projects.

TECH 3700 Materials Management
3:3:0 F, Sp
- Prerequisite(s): TECH 3000 and [ACC 3000 or (ACC 2010 and ACC 2020) or ACC 2030] and (ENGL 2010 or ENGL 2020)
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.

TECH 3850 Quality Assurance in Technology
3:3:0 F, Sp, Su
- Prerequisite(s): TECH 3000 and MATH 1040 or approval of advisor
Involves a comprehensive approach to quality management related to technical professions. Includes quality assurance certification, 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.

TECH 4000 Reliability Engineering and Safety
3:3:0 F, Sp
- Prerequisite(s): TECH 3000 and (ENGL 2010 or ENGL 2020)
Studies interrelated aspects of safety, reliability, 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.

TECH 4050 Global Ethical and Professional Issues in Technology
3:3:0 F, Sp, Su
- Prerequisite(s): PHIL 2050 and (TECH 4420 or CMGT 3040)
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.

TECH 4200 Technology Marketing and Distribution
3:3:0 F, Sp
- Prerequisite(s): TECH 3000 and (ENGL 2010 or ENGL 2020)
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.

TECH 4300 Advanced Technical Experience
3:3:0 Not 11-12
- Prerequisite(s): Senior standing, BSTM advisor approval, and department approval
A capstone course for Bachelor’s Degree Technology Management majors. Broadens technical skills through group participation, individual investigation, problem solving, and the application of applied research in technology development. Includes the preparation of development plans in a student’s chosen discipline.

TECH 4400 Advanced Project Management
3:3:0 F, Sp
- Prerequisite(s): (TECH 3000 or ACC 2010 and ACC 2020 or ACC 2030) and MATH 1040 or advisor approval
- Pre-or Corequisite(s): TECH 3400
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.

TECH 4420 Organization Information Technologies
3:3:0 F, Sp, Su
- Prerequisite(s): TECH 3000 and Computer Literacy
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 with a focus on 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.

TECH 4810 Senior Internship
1 to 3:0:5 to 15 F, Sp, Su
- Prerequisite(s): Approval of Technology Management Department Chair
For Technology Management undergraduate students desiring on-site work visits, written assignments and oral presentations. Offers 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 481R Senior Capstone Project
3:3:0 F, Sp, Su
- Prerequisite(s): Senior Status and TECH 3400 and TECH 3700 and TECH 3850
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.

TECH 491R Independent Study
1 to 3:0:3 to 9 F, Sp, Su
- Prerequisite(s): Approval of Technology Management Department Chair
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.

THEA 1013 Introduction to Theatre
3:3:0 F, Sp, Su
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.

THEA 1023 Introduction to Film
2:2:0 F, Sp, Su
- Corequisites(s)/THEA 1025
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 ourselves and our society. Combines lecture, screening, and demonstration with critical discussions of assigned readings and films.

THEA 1025
Introduction to Film Laboratory
1:0:3
- Corequisite(s): THEA 1023
Film Viewing Lab for weekly films required for THEA 1023. 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.

THEA 1033
Fundamentals of Acting I
3:3:0
F, Sp, Su
For theatre arts majors and anyone interested in developing acting skills. Covers basic acting terminologies and definitions, techniques of movement, voice, and script analysis with a strong emphasis on performance ethics.

THEA 1113
Voice and Diction
3:3:0
F, Sp
- Prerequisite(s): THEA 1033
Designed for theatre, communication, and film majors; and other students interested in improving 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 (I.P.A) combined with lectures, films, demonstrations, and critiques.

THEA 1223
Makeup for Stage and Screen I
3:3:0
F, Sp
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.

THEA 1513
Stagecraft for Stage and Screen I
3:3:0
F, Sp
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.

THEA 159R
Production Practicum for Stage and Screen I
1:1:2
F, Sp, Su
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
3:3:0
F, Sp
Introduces students to the analysis of story-based text across a range of media. Covers dramatic narrative and semiotic theory and dramatic literature from various periods in theatre history. Utilizes lecture, discussion, script and text analysis, film viewing, and live production attendance.

THEA 2033
Fundamentals of Acting II
3:3:0
F, Sp
- 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 2123
Introduction to Movement for the Actor
3:3:0
Sp
- 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 219R
Performance Practicum for Stage and Screen
1:0:3
F, Sp
- Prerequisite(s): Permission of instructor
Provides opportunity for earning college credit for supervised performance and production assignments in UVU 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 2203
Costume Construction for Stage and Screen I
3:3:0
F
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.

THEA 2313
Film History I
3:2:3
F
- Prerequisite(s): THEA 1023 or ENGL 2150
Explores the development of the feature film, both in America and abroad from 1890 to 1945. Covers the evolution of motion pictures from conception as an entertainment novelty (c. 1895) to the mass-attendance, 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 2323
Film History II
3:2:2
Sp
- 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 1930s 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
Special Topics in Film Studies
3:2:2
Not 11-12
- 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 249R
Musical Theatre Practicum
2:0:6
F, Sp
- Prerequisite(s): Instructor approval by audition
Prepares the student to perform in musical theatre through development of acting, singing, and dance techniques in performance showcase forum. Offers performance opportunities. May be repeated for a maximum of 9 credits toward graduation.

THEA 2513
Introduction to Design for Stage and Screen
3:3:0
F, Sp
- Prerequisite(s): THEA 1513
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.

THEA 259R
Production Practicum for Stage and Screen II
1:0:3
F, Sp, Su
- 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 2600
Introduction to Theatre and Drama for Young Audiences
3:2:3
F
- Prerequisite(s): THEA 159R
Introduces the philosophy and practices of Theatre for Young Audiences (TYA), 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.
Course Descriptions

THEA 2173 Introduction to Writing for the Stage and Screen 3:3:0 F, Sp
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 F, Sp
- 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.

THEA 290R Independent Study 1 to 5:1 to 5:0 F, Sp
For students with individual projects. Credits given for acceptable projects in playwrighting, 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 3110 (Cross-listed with: ENGL 3110, COMM 3110) Non-Fiction Cinema History 3:2:3 Su, F, Sp
- Prerequisite(s): THEA 1023
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 the popular documentaries of Michael Moore.

THEA 3133 Stage Combat 3:3:0 Sp
- Prerequisite(s): THEA 2123
Teaches principles of stage combat/ choreography and safety practices.

- Prerequisite(s): ENGL 2150 or THEA 1023
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 3203 Costume Construction II 3:3:0 Sp
- Prerequisite(s): THEA 2203
Provides more experience with sewing machine operations and advanced sewing techniques. Includes textile selection and construction skills. Focuses on specialized pattern drafting and draping.

THEA 3223 Makeup II 3:3:0 Sp
- Prerequisite(s): THEA 1223
Teaches advanced techniques in makeup design and application, character analysis, and three-dimensional masks. Includes hair applications, prosthetic appliances, airbrush techniques, and variety characterizations.

THEA 3413 Acting for Musical Theatre I 3:3:0 F
- Prerequisite(s): THEA 2033
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 3423 Acting for Musical Theatre II 3:3:0 Sp
- Prerequisite(s): THEA 3413
Further develops and refines the performer’s abilities as a singer, dancer, and actor. Links trends in musical theater with past and present artistic choices. Explores design aspects of musical theater and thematic integration of acting, singing, and dancing. Includes lecture, discussion, film, rehearsal, and performance.

THEA 3442 Dance for Musical Theatre 3:2:3
- Prerequisite(s): DANC 1100 and DANC 1500
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 359R Production Practicum for Stage and Screen III 1:0:3 F, Sp, Su
- Prerequisite(s): THEA 259R
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 3613 Directing Actors 3:3:0 Sp
- Prerequisite(s): (THEA 1713 and THEA 1033) or DGM 2110
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 3623 Advanced Direction of Actors for Theater 3:3:0 F
- Prerequisite(s): THEA 3613
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 3633  Introduction to Stage Management I  
3:3:0  F  
• Prerequisite(s): THEA 1513  
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 3643  Advanced Direction of Actors for Film  
3:3:0  Su, F, Sp  
• Prerequisite(s): THEA 3613  
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 3700  Script and Text Analysis II  
3:3:0  F  
• Prerequisite(s): THEA 1713  
Expands on principles and theories introduced in Script and Text Analysis I. Focuses on the practical application of dramatic, narrative, semiotic, developmental, and filmic theory to the art and practice of the writer, actor, designer, director, educator and dramaturg.

THEA 3713  Theatre and Drama in the Elementary School  
3:2:2  F, Sp  
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 theory, materials, and practice--including story dramatization, play writing, rehearsal techniques, storytelling, puppets, pantomime, role-play and theatre games. Addresses the Utah State Core Curriculum in Theatre at Secondary and Elementary levels.

THEA 3723  Theatre History and Literature I  
3:3:0  F  
• Prerequisite(s): THEA 1013, THEA 1713, ENGL 2010 or ENGL 2020  
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 3733  Theatre History and Literature II  
3:3:0  Sp  
• Prerequisite(s): THEA 3723  
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 374R  New Script Workshop  
3:2:3  F  
• Prerequisite(s): THEA 2713 or THEA 3750  
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.

THEA 3753  Script Writing II  
3:3:0  Sp  
• Prerequisite(s): THEA 2713 or Permission of Instructor  
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 4123  Acting Styles  
3:3:0  F  
• Prerequisite(s): THEA 2033, THEA 3123, THEA 3133, and THEA 3733  
Introduces acting styles and 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 4133  Auditioning  
3:3:0  Sp  
• Prerequisite(s): THEA 1033, THEA 4123  
Prepares the student with the specific skills and knowledge to audition for stage and/or screen and to find success in the audition process, both psychologically and physically. Includes resumes and interview skills.

THEA 414R  Special Topics in Film Studies  
3:2:3  Sp  
• Prerequisite(s): THEA 1023 or ENGL 2150  
Examines the history and period research. 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 4213  Costume Design I  
3:3:0  Sp  
• Prerequisite(s): THEA 2513, THEA 2203, THEA 3553  
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.

THEA 4223  Costume Design II  
3:3:0  F  
• Prerequisite(s): THEA 4213  
Builds upon 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 4513  Sets and Properties Design  
3:3:0  Sp  
• Prerequisite(s): THEA 2513, THEA 3513, and THEA 3553  
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 457R
Special Projects in Design for Stage and Screen
1 to 3:3 to 9 Not 11-12
• Prerequisite(s): THEA 3233, or THEA 4233, or THEA 4513, or THEA 4533
Involves work on approved projects requiring sophisticated skills in scenic, lighting, costume, or makeup design. May include designs for UVU productions or for community and regional performing groups. Requires approval by appropriate theatre faculty. May be repeated for a maximum of 3 credits toward graduation.

THEA 458R
Special Topics in Theatre
1 to 3:1 to 3:0 Su, F, Sp
• 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 4633
Theatre Administration
3:3:0 Sp
• Prerequisite(s): THEA 3633
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 experiences.

THEA 4713
Script Writing III
3:2:3 Not 11-12
• Prerequisite(s): THEA 3753
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 Not 11-12
• Prerequisite(s): THEA 4713
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, guerilla theatre, mimes, short or full-length films, documentaries, television shows, sit-coms, movies-of-the-week and other forms not covered by current classes. Allows for a semesters of writing/re-writing and/or critique and development and possible workshop presentation. May be repeated for a maximum of 9 credits toward graduation.

THEA 481R
Theatre Internship
1 to 8:5 to 40
• 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.

THEA 490R
Independent Study
1 to 3:3 to 5:0 F, Sp
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
1:0 Not 11-12
• Prerequisite(s): Junior Status Theatre Major, Department Approval
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 F
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
3:0 F, Sp
• Prerequisite(s): THEA 3733 and Senior Status
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.

WELD 1020
Related Arc Welding
2:1:3 Not 11-12
A specialty course designed for various trades and community members. For beginning students interested in learning basic arc welding techniques, theory, and practices including types of machines, electrodes and their application. Studies types of joints, expansion and contraction of metals, inspection and testing of welds, care and use of tools and equipment, as well as safe practices in welding.

WELD 1030
Related Oxyacetylene and Arc Welding
3:1:7 F, Sp
A specialty course designed for refrigeration, 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.

WELD 1040
Fundamentals of Welding and Sculpture
3:1:7 Not 11-12
Covers the use of welding processes in the design, fabrication, and production of welded structure including sculpture. Introduces the theory and practice of basic oxyacetylene welding, brazing and silver braze. Includes the design principle, art technique, and the history of metal sculpture.

WELD 1100
Essentials of Welding
8:3:15 Not 11-12
For Welding Technology majors and interested community members. Beginning course in entry-level skills basic to industry in principles and techniques of oxyacetylene welding and cutting and arc welding. Includes use of mild steel stick electrodes for beading, fillet and groove welds in flat positions. Emphasizes safety, proper care and use of equipment.

WELD 1200
Intermediate Arc Welding
6:2:13 Not 11-12
For Welding Technology majors with emphasis on the welding of 3/16 to 1/2 inch steel plate, using AWS E6010, E7014, E7018, and E7024 mild steel and low alloy electrodes. Emphasizes fillet and groove welds in horizontal and vertical positions. Includes lab.

WELD 1210
Print Reading and Layout
6:4:5 Not 11-12
• Prerequisite(s): WELD 1100
For Welding Technology majors. Studies basic print interpretation and visualization for industrial applications. Includes weld symbols, covers layout techniques, from shop drawings to fabrication, of sheet metal, plate, pipe and structural shapes. Includes lab.

WELD 1250
Math for Welders
2:2:0 Not 11-12
• Prerequisite(s): MAT 0920 or instructor approval
For Welding Technology majors. Covers a practical application of algebra and geometry as used in industry. Introduces trigonometry and advanced
measurement.

WELD 1300 Industrial Maintenance 3C 5:5:0 Not 11-12
- Prerequisite(s): Departmental written approval
A welding course for Industrial Maintenance apprentices. Teaches welding processes and safety. Covers oxyacetylene equipment, joints and positions, brazing, oxyacetylene and oxy-fuel cutting, and flame heating.

WELD 1310 Industrial Maintenance 4B 5:5:0 Not 11-12
- Prerequisite(s): Departmental written approval
An advanced welding course for Industrial Maintenance apprentices. Teaches processes and procedures in arc-welding (SMAW), weld defects and testing, fundamentals of metallurgy, expansion-contractions, fabrication and layout. Introduces MIG welding and TIG welding.

WELD 1320 Industrial Maintenance 4C 5:5:0 Not 11-12
- Prerequisite(s): Departmental written approval
A pipe fitting course for Industrial Maintenance apprentices to construct threaded and welded pipe runs to industrial standards. Weld inspection methods will also be taught.

WELD 1350 Industrial Maintenance 3D 5:5:0 Not 11-12
- Prerequisite(s): Departmental written approval
A rigging and cable machinery course for Industrial Maintenance apprentices. Teaches rigging precautions, tools and equipment, cable replacement and repair, and lifting procedures. Covers computing weight and center of gravity, troubleshooting and repair of overhead crane systems.

WELD 2300 Portable and Advanced Arc Welding 7:3:13 Not 11-12
- Prerequisite(s): WELD 1100, WELD 1200
Studies theories and principles of internal combustion gasoline and diesel engines pertaining to portable welding power plants. Includes basic electrical principles, preventative maintenance, and troubleshooting. Emphasizes vertical and overhead positions welding. Includes lab. Successful completers must have passed welding qualification tests in all four welding positions with AWSE7018.

WELD 2310 Welding Inspection 2:2:0 Not 11-12
For Welding Technology majors. Presents skills and techniques to assist welders and welding inspectors to better perform their duties. Procedure and qualification testing welds and welders are studied. Studies inspection procedures. Includes destructive and non-destructive testing for the various welding defects. Emphasizes heat treatment operations.

WELD 2320 Metallurgy 4:4:0 Not 11-12
For Welding Technology majors. Emphasizes welding carbon and alloy steels used with metals such as cast iron, aluminum and its alloys, copper, and nickel. Studies electrodes, processes and techniques. Discussions and demonstrations are given on various methods of heat treatment. Emphasizes metal properties.

WELD 2400 Industrial Joining Processes 8:3:15 Not 11-12
- Prerequisite(s): WELD 1100, WELD 1200, WELD 2300

WELD 2410 Advanced Blueprint and Design 3:2:3 Not 11-12
- Prerequisite(s): EGDT 1000 and WELD 1210
For Welding Technology majors. Covers interpretations of advanced blueprints and layout problems. Uses advanced design and fabrication techniques on personal projects. Discusses new concepts in design pattern and instrumentation use. Includes lab.

WELD 250R Cooperative Work Experience 1 to 8:0:5 to 40 Not 11-12
- Corequisite(s): WELD 285R
Designed for Welding Technology majors. Provides paid, on-the-job work experience in the student’s major. Work experience and the correlated class are coordinated and approved by the Cooperative Coordinator. 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.

WELD 285R Cooperative Correlated Class 1:1:0 Not 11-12
- Corequisite(s): WELD 281R
For Welding Technology majors. Designed to identify on-the-job problems and provide 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. Methods include 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.

WELD 299R VICA 1:1:0 Not 11-12
Designed for Welding Technology majors. Supports and facilitates the goals and objectives of Vocation Industrial Clubs of America (VICA). VICA is a pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests.

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**ZOOL—Zoology**

ZOOL 1090 Introduction to Human Anatomy and Physiology 3:3:0 Su, F, Sp
- 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** BB Human Anatomy 3:3:0 Su, F, Sp
- Prerequisite(s): BIOL 1010 or BIOL 1610, ENGL 1010 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
- Prerequisite(s): BIOL 1010 or BIOL 1610, ENGL 1010 or written permission of the Anatomy program coordinator.
- 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.

ZOOL 232H Human Anatomy 3:3:0 F, Sp
- Prerequisite(s): BIOL 1010 or BIOL 1610, ENGL 1010 or written permission of the Anatomy program coordinator.
- Corequisite(s): ZOOL 232L, laboratory section; at least one semester of college level experience is highly recommended
For students who intend to pursue careers in the bio-medical 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 2320, but emphasizes clinical applications of the information. Students will choose and complete a course project that may involve short written reports, a term paper, or a poster presentation.

ZOOL 232L Human Anatomy 1:0:3 F, Sp
- 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 bio-medical sciences; especially pre-nursing, pre-med,
Course Descriptions

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.

ZOOL 2420
Human Physiology
3:3:0 Su, F, Sp
- Prerequisite(s): (BIOL 1010 or BIOL 1610) and CHEM 1110
- Corequisites(s): ZOOL 2425
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.

ZOOL 2425
Human Physiology Laboratory
1:0:3 F, Sp
- Prerequisite(s): (BIOL 1010 or BIOL 1610) and CHEM 1110
- Corequisites(s): ZOOL 2420
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 242H
Human Physiology
3:3:0 F, Sp
- Prerequisite(s): BIOL 1010 (or BIOL 1610), CHEM 1110, written permission of the physiology program coordinator.
- Corequisites(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 F, Sp
- Prerequisite(s): BIOL 1010 (or BIOL 1610), CHEM 1110, written permission of the physiology program coordinator.
- Corequisites(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.

ZOOL 3080
Pre-Dental Orientation
3:2:2 F
- Prerequisite(s): junior 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.

ZOOL 3100
Vertebrate Zoology
3:3:0 F
- Prerequisite(s): BIOL 1010 or BIOL 1620 and student assessment scores as listed in BIOL 1610
- Corequisites(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.

ZOOL 3105
Vertebrate Zoology
1:0:2 F
- Prerequisite(s): BIOL 1010 or 1620 and student assessment scores as listed in BIOL 1610
- Corequisites(s): ZOOL 3100
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.

ZOOL 3200
Invertebrate Zoology
4:3:2 Sp
- Prerequisite(s): BIOL 1620
Intended for Biology Department majors. Covers the anatomy, physiology, systematics, evolution and ecology of invertebrate animals. Includes weekly laboratory.

ZOOL 3300
Herpetology
3:2:2 Sp (Even Years)
- Prerequisite(s): BIOL 1610 and BIOL 1620
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.

ZOOL 3430
Entomology
3:3:0 On Sufficient Demand
- Prerequisite(s): BIOL 1620 and BIOL 2625
- Corequisites(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
- 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 On Sufficient Demand
- Prerequisite(s): BIOL 1620 required. 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 3700
Mammalogy Laboratory
1:0:2 On Sufficient Demand
- Prerequisite(s): BIOL 1620 required. ZOOL 3100 and ZOOL 3105 strongly recommended
- Corequisite(s): ZOOL 3700
Explores the taxonomy, morphology, behavior, ecology, evolution, development, and conservation of mammals. Includes three weekly lectures and a weekly laboratory.

ZOOL 3705
Animal Behavior
3:3:0 Sp
- 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.

ZOOL 4000
Animal Behavior
3:3:0 Sp
- Prerequisite(s): BIOL 1620
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
3:0:8 Sp
- Prerequisite(s): ZOOL 3080 and Departmental Approval
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 On Sufficient Demand
• Prerequisite(s): BIOL 1620 or MICR 2060 or BIOL 1010
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 will involve identification of parasites. Includes weekly laboratory.

ZOOL 4300
Histology
4:3:2 F (Alternate years)
• Prerequisite(s): (ZOOL 2320 or 232H) or written permission of the instructor
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.

ZOOL 4400
Pathophysiology
4:4:0 Su, F, Sp
• Prerequisite(s): ZOOL 3100 and (ENGL 1010 with a grade of C- or better)
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.

ZOOL 4500
Comparative Vertebrate Zoology
4:3:3 F (Alternate years)
• Prerequisite(s): (BIOL 1010 or BIOL 1610) or (ZOOL 1090 or ZOOL 2320); and (ENGL 1010 with a grade of C- or better)
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.

ZOOL 4600
Ornithology
4:3:2 F
• Prerequisite(s): BIOL 1620, ZOOL 3100 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.

ZOOL 4700
Advanced Anatomy
4:2:6 F, Sp
• Prerequisite(s): ZOOL 2320 or permission of the anatomy program coordinator
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, craniometrics, 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.

ZOOL 4750
Human Physiology A Cell Biology Approach
4:3:3 Not 11-12
• Prerequisite(s): BIOL 3400
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.

ZOOL 4780
Neuroscience
4:4:0 On Sufficient Demand
• Prerequisite(s): ZOOL 2420
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.
GENERAL OFFICERS

President .......................................................... Matthew S. Holland
Vice President, Academic Affairs ............................. Ian K. Wilson
Vice President, Development & Alumni Relations ......... Marc L. Archambault
Vice President, Finance & Administration .................. Val L. Peterson
Vice President, Student Affairs ............................... Cory L. Duckworth
Vice President, University Relations ......................... Q. Val Hale
Chief Planning, Budget, and Policy Officer ................ Linda L. Makin
Assistant Attorney General ................................. David C. Jones

EXECUTIVE DIVISION

President .......................................................... Matthew S. Holland
Assistant to the President ........................................ Kyle A. Reyes
Special Assistant to the President, Federal Relations ...... Elaine Englehardt
Chief Planning, Budget, and Policy Officer ................ Linda L. Makin
Assistant Director, Budgets ..................................... Ellen Sweat
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Compliance Officer ........................................... Nancy Bartlett
Policy Officer .................................................. Cara O’Sullivan

ACADEMIC AFFAIRS

Vice President .................................................. Ian K. Wilson
Associate Vice President, Academic Programs ............. Kathie Debenham
Associate Vice President, Engaged Learning ................. Brian Birch
Career & Technical Education Director ...................... Susan Thackeray
Dean, Woodbury School of Business ......................... Norman S. Wright
Associate Dean, Woodbury School of Business .......... Eugene Seeley
Assistant Dean, Woodbury School of Business ............ Mikki O’Connor
Assistant Dean, Woodbury School of Business ............ Randy Beckham
Dean, School of Education .................................. Briant J. Farnsworth
Associate Dean, School of Education ....................... Linda Pierce
Interim Dean, University College .......................... K.D. Taylor
Associate Dean, University College ......................... Maureen Andrade
Assistant Dean, University College ......................... Shane Rager
Dean, College of Humanities
and Social Sciences ............................................. Frederick White
Associate Dean, College of Humanities
and Social Sciences ............................................. David Yells
Assistant Dean, College of Humanities and Social Sciences ........................................... Toni Harris
Dean, School of the Arts ................................................................. K. Newell Dayley
Associate Dean, School of the Arts .................................................. Steven Bule
Assistant Dean, School of the Arts .............................................. Barbara Hammond
Dean, College of Science and Health ............................................ Samuel Rushforth
Associate Dean, College of Science and Health ........................... Daniel Fairbanks
Assistant Dean, College of Science and Health ................................. Louise Ilies
Dean, College of Technology and Computing ............................... Daniel Horns
Associate Dean, School of Computing ........................................... Abraham Teng
Associate Dean, School of Applied Technology and Construction .............................................................................. TBD
Associate Dean, Aviation Science ................................................. Greg Schwab
Associate Dean, School of Public Services ....................................... Jeff Maxfield
Senior Director, Community and Continuing Education .......... Diana Hunter
Director, Faculty Center for Teaching Excellence .......................... Anton Tolman
Program Director, Student Success and Retention ..................... Michelle Kearns
Director, Academic Class Scheduling and Curriculum ............... Eva Bernfeld
Director, Concurrent Enrollment ................................................... Ted Ungricht
Senior Director, Distance Education ........................................... Dan Clark
Director, Extended Studies ................................................................. Robert Burns

DEVELOPMENT & ALUMNI RELATIONS
Vice President .............................................................................. Marc L. Archambault
Associate Vice President, Donor Engagement ................................. TBD
Associate Vice President, Development ........................................ TBD
Director, Alumni Relations .............................................................. Jeri Allphin
Director, Planned Giving Annual Fund ....................................... Cristina Pianeozzola
Director, Data Services Management ............................................ Bart Jacobs
Director, Donor Relations & Scholarship Programs ............................ Nancy Smith

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Vice President .............................................................................. Val L. Peterson
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Associate Vice President, Finance ............................................... Michael R. Francis
Associate Vice President, Information Technology/CIO .............. Ray Walker
Associate Vice President/Equity Officer, Human Resources .......... Ron Price
Assistant Vice President, Major Projects ....................................... Tom Rasmussen
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Sr. Director, Auxiliary Services ..................................................... Kenneth Matthews
Director, Risk Management ......................................................... Joe Marrott
Director, Grounds ........................................................................ Jack Boswell
Director, Public Safety and Parking Services ................................ John Brewer
Director, Physical Plant ................................................................. Laird Bellon
Director, Space Management ....................................................... Frank Young
Director, Accounting .................................................................... Joe Martin
Director, Small Business Development Center ............................ Ken Fakler
Director, Printing Services ............................................................ David Scott
Director, Purchasing ..................................................................... Ryan Lindstrom
Director, UCCU Center ................................................................. Mark Hildebrand
Senior Director, Infrastructure Services ...................................... Eddie Sorensen
Senior Director, Technology Support Services ............................. David Tobler
Director, Telephone Services ....................................................... Tom Branan
Director, Center for Student Computing .................................... Darel Hawkins
Director, Web Development Services ......................................... Nathan Gerber
Director, Computer and Technician Help Desk .......................... JoAnn Innes
Director, Infrastructure Implementation and Management ............. Chad Lyman
Director, Administrative Programming ..................................... Denise Vandevanter
Director, Automation & Integration ............................................ Mike Duffin
Director, Media Services ............................................................... Travis Tasker
Director, Systems Administration ................................................. Brett McKeachnie
Senior Director, Administrative Computing ................................. Joe Belnap
Bursar .......................................................................................... Bernell Hofheins
Database Administrator ............................................................... Tracy Adams
IT Security Officer ................................................................. Leroy Brown

STUDENT AFFAIRS
Vice President .............................................................................. Cory L. Duckworth
Special Assistant to the Vice President of Student Affairs ..................... Bonnie Henrie
Associate Vice President, Enrollment Management ..................... Michelle Taylor
Senior Director, Enrollment Management ..................................... Liz Childs
Director, Financial Aid ................................................................. Joanna McCormick
Registrar ....................................................................................... LuAnn Smith
Director, Graduation/Transfer Services ..................................... Margaret Bellon
Director, Prospective Student Services ......................................... Jill Smith
Assistant Director, Call Center ....................................................... Lori Duke

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Administration

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Director, Turning Point ..........................................................Carol Verbecky
Coordinator, Equity in Education .............................................Jennie Briggs
Coordinator, Child Care Resource and Referral .........................Julia Mohr
Coordinator, Wee Care Center .................................................Mary Ellen Larsen
Director, Student Affairs Grants and Development ...............Greg Jackson
Director, School, College and University Partnership .........Liz Andrus
Director, Statewide GEAR UP ................................................Laurie Miller
Web Developer .................................................................Ronnott Stutz
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Director, One Stop .............................................................Francie Hallman
Coordinator, NCAA Compliance .........................................Debi Marriott
Coordinator, Residency .......................................................Anne Morrey
Coordinator, International Admissions ...............................Connie Whaley
Associate Vice President, Student Advisement and Support Services... Shad Sorensen
Wasatch Campus ...............................................................Shad Sorensen
Campus Administration, Wasatch Campus .........................Tom Melville
Senior Director, Career and Academic Counseling .............Adam Black
Director, Multicultural Center ................................................Gwen Anderson
Director, Accessibility Services ..........................................Edward Martinelli
Director, Advisor Training and Development ....................Wade Oliver
Director, Testing Services .....................................................Colleen Sorensen
Director, TRIO Support Services ..........................................Keith Jensen
Director, Career Development Center ................................Michael Snapp
Director, Academic Standards ............................................Jan Klingman
Dean of Students/Assistant Vice President, Student Life ......Bob Rasmussen
Senior Director, Student Life ...............................................Phil Clegg
Senior Director, Sorensen Student Center ..............................Ken Mathews
Senior Director, Student Health Services ...............................Bill Erb
Director, Psychological Services .........................................Jack Jensen
Supervisor, Nurse Practitioner .............................................Christine Renfro
Coordinator, Judicial Affairs/Dispute Resolutions ...............Ashley Robertson
Director, Campus Recreation ...............................................Bo Earls
Director, Volunteer & Service Learning ..............................Alexis Palmer
Director, Student Involvement .............................................Grant Flygare
Associate Vice President/Director, Intercollegiate Athletics ....Michael V. Jacobsen
Associate Athletic Director, Internal Operations ....................D. J. Smith
Assistant Athletic Director, External Operations ....................Brad Mertz
Assistant Athletic Director, Senior Woman Administrator ......Megan Kennedy
Director, Marketing and Promotions ........................................Nate Mathis
Director, Business Operations ...............................................Nikki Scott
Assistant Athletic Director, Media Relations ............................Clint Burgi
Assistant Athletic Director, Sports Medicine ...........................Andrew Nelson
Assistant Athletic Director, Compliance/Student Programs .....Eric Wierhouse
Interim Director, Center for the Advancement of Leadership ....Kirk Young

UNIVERSITY RELATIONS

Vice President .................................................................Q. Val Hale
Associate Vice President, University Marketing and Communications ................................................Chris Taylor
Associate Vice President, International Affairs .........................Rusty Butler
Director, Creative Services ....................................................Matt Bambrough
Director, Events ...............................................................Mike Maughan
Director, Publication and Marketing ......................................Brad Plothow
Director, Studios and Broadcasting ........................................Will McKinnon
Director, Web Resources ......................................................Anne Arendt

Full-time faculty members are listed in alphabetical order. Date in parentheses indicates first year of full-time employment at UVU.

A

ABBOTT, Scott (1999); Director, Integrated Studies/Professor, Philosophy and Humanities; B.A., German Literature; M.A., German Literature, Philosophy minor, Brigham Young University; Ph.D., German Literature, Princeton University.

ABDRISAEV, Baktybek (2007); Lecturer, History and Political Science; B.S., Computer Science, Bishkek Polytechnic Institute; Ph.D., Academy of Science Belarus.

ADAMS, David M. (1999); Associate Professor, Electrical Automation and Robotics Technology; B.S., Mining Engineering, Virginia Polytechnic Institute and State University; professionally licensed Electrical Contractor, Building Inspector and Master Electrician.

ADAMS, Lynn L. (2000); Associate Professor, Finance and Economics; B.S., Math-Science, Brigham Young University; MBA, Westminster College; Ph.D., Organizational Leadership, University of Phoenix.

AESCHBACHER, Max (2005); Department Chair/Associate Professor, Developmental Mathematics; B.S., Mathematics, University of Utah; M.S., Mathematics, University of Oregon.

ALBRECHT-CRANE, Christa (2001); Associate Professor, English and 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.

ALLISON, Charles (2001); Professor, Computer Science and Pre-Engineering; 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); Assistant Professor, Emergency Services; A.A.S., Fire Science, Utah Valley University; A.A.S., Emergency Care and Rescue, Weber State University; B.S., Public Emergency Services Management, Utah Valley University; M.Ed., Instructional Design, Utah State University.

AMIN, Masood (1997); Associate Professor, Computer Science and Pre-Engineering; B.S.; M.S., Mechanical Engineering, Brigham Young University.

ANDERSEN, Bonnie (2008); Assistant Professor, Physics; B.S., Physics, Brigham Young University; Ph.D., Experimental Physics, University of Utah.

ANDERSON, Genan (2000); Professor, Elementary Education; B.S., Elementary Education and Child Development, Utah State University; M.Ed., Child Development, Utah State University; Ph.D., Marriage, Family and Human Development, Brigham Young University.

ANDERSON, John (2007); Associate Professor, Information Systems & Technology; B.A., English; M.B.A., Strategy & Finance, University of Utah; Ph.D., Information Systems, Utah State University.

ANDERSON, Jonathan (2010); Lecturer, Developmental Mathematics; B.S., Electrical and Computer Engineering; M.S., Electrical and Computer Engineering, Brigham Young University.

ANDERSON, Karin A. (1991); Professor, English and 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, Digital Media; B.A., German, Brigham Young University; M.S.; Ph.D., Instructional Technology, Utah State University.

ANDRIST, Kathryn (2001); Associate Professor, Mathematics; B.S.; M.S.; Ph.D., Mathematics, Brigham Young University.

ARMSTRONG, Vaughn S. (2003); Associate Professor, Finance and Economics; B.S., Mathematics, Brigham Young University; J.D., J. Reuben
Faculty

Clark College of Law, Brigham Young University; Ph.D., Finance, Arizona State University.

**ARRINGTON, James** (1999); Department Chair/Associate Professor, Theatrical Arts; B.F.A., Theater, Utah State University; M.A., Theater, Brigham Young University.

**ASBELL, Scott R.** (1994); Artist in Residence, Ballroom Dance.

**ASHMAN, Marinda G.** (2007); Assistant Professor, College Success Studies; B.S. Elementary Education, Brigham Young University; M.Ed., Health, P.E. & Recreation, Utah State University.

**B**

**BACKUS, Ellen** (2002); Associate Professor, Developmental Mathematics; B.A., Math Education; M.A., Mathematics, Brigham Young University.

**BACON, Marlene** (2008); Associate Professor, Nursing; B.S., Nursing (Cum Laude), Westminster College; M.S., Nursing/Administration; Ph.D., Nursing Research/Health Promotion, University of Utah.

**BAILEY, James** (2009); Professor, Accounting; B.S., Finance, Brigham Young University; B.S., Accounting; M.B.A., University of Utah; Ph.D., Business (Accountancy), University of Nebraska-Lincoln.

**BAIRD, Deborah K.** (1993); Associate Professor, Marketing; B.A.; M.B.A. (Economics), Brigham Young University.

**BAIRD, Kellan** (1998); Associate Professor, Construction Technologies; B.S., Industrial Education, Brigham Young University.

**BALDEN, John A.** (1996); Associate Professor, Accounting; B.S., Accounting; M.Acc. (Federal Taxation emphasis), Brigham Young University; J.D., Thomas M. Cooley Law School.

**BANCHERO-KELLEHER, Angela** (2006); Assistant Professor, Dance; B.A., History; M.F.A., Dance, University of Utah.

**BARGERON, Brent** (2002); Department Chair/Professor, Physics; B.S., Physics, Brigham Young University; M.S., Ph.D., Physics, University of Illinois-Urbana.

**BARTHEL, Brian R.** (1998); Associate Professor, Community Health; B.S.; M.S., Health Science/Community Health, Brigham Young University; Ph.D., Health Education, Southern Illinois University.

**BARTHOLOMEW, Aaron** (2007); Department Chair/Assistant Professor, Legal Studies; B.A., Communication; J.D., Brigham Young University.

**BARTHOLOMEW, Kimberly W.** (1994); Associate Professor, Information Systems & Technology; B.S.; M.S., Computer Science, Brigham Young University; Ph.D.(ABD) Computer Technology in Education, Nova Southeastern University.

**BARTHOLOMEW, Spencer** (2001); Instructor, Developmental Mathematics; B.S., Mathematics; M.S., Mathematics/Statistics, University of Utah.

**BASTIN, Brian C.** (2010); Lecturer, Aviation Science; B.S., Chemical Engineering, University of Kentucky.

**BAUM, Spencer** (2010); Lecturer, Behavioral Science; B.S., Behavioral Science, Utah Valley University; M.S., Ph.D., Clinical Psychology, Indiana State University.

**BAYER, Virginia E.** (2000); Associate Professor, Biology; B.S., Biological Science; B.A., Classical Languages, University of California, Irvine; Ph.D., Medical Sciences-Neuroscience, Cornell University Graduate School of Medical Science; D.V.M., Cornell University College of Veterinary Medicine.

**BEAN, Ben** (1990); Professor, Accounting; B.S., Business Management; M.B.A., Accounting Emphasis, University of Utah.

**BEAN, Paul** (1997); Program Coordinator/Associate Professor, Automotive Technology; B.S., Industrial Education, Brigham Young University; M.Ed., Instructional Technology, Utah State University.

**BEMEL, James** (2010); Assistant Professor, Public & Community Health; B.S., Health Promotion, Weber State University; M.S., Public Health/Health Services Administration; Ph.D., Health Promotion & Education, University of Utah.

**BENDER, Melinda A.** (1998); Professor, Basic Composition/English as a Second Language; B.S., Speech Communication; MAIS, Communication and Human Development, Oregon State University.

**BENNITT, Lyn E.** (1996); Associate Professor, History and Political Science; B.A., History; B.A., Anthropology; MSE Curriculum and Instruction; Ph.D., History, University of Kansas.

**BENNITT, Sean** (2010); Assistant Professor, Nursing; M.S., Nursing, University of Phoenix.

**BENNION, Alvin K.** (2001); Professor, Physics; B.S.; Ph.D., Physics, Brigham Young University.

**BENTON, Robert** (2007); Lecturer, Electrical Automation and Robotics Technology; B.S., Business Management, Utah Valley State College.

**BENTLEY, Jan** (1999); Department Chair/Associate Professor, Digital Media, B.S., Marketing and Distributive Education, Brigham Young University; M.S., Business Information Systems and Education, Utah State University.

**BERLIN, Dustin** (2006); Lecturer, Aviation Science; B.S., Aviation, Utah Valley State College; M.A., Liberty University.

**BEZZANT, Howard** (2008); Assistant Professor, Engineering Graphics and Design Technology; A.A.S., Drafting and Design Technology, Utah Technical College; B.S., Technology and Industrial Education, Utah State University.

**BIGGS, Barbara** (2007); Instructor, Developmental Mathematics; B.S., Physical Education, University of Nevada, Reno; M.A., Math Education, Brigham Young University.

**BIRCH, Brian D.** (1999); Associate Vice President for Academic Affairs, Engaged Learning; Professor, Philosophy and Humanities; B.S.; M.S., Philosophy, University of Utah; Ph.D., Philosophy of Religion, Claremont Graduate School.

**BLACK, Katherine D.** (2005); Associate Professor, 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 A.** (2003); Associate Professor, Automotive Technology; A.A.S., Diesel and Heavy Duty Mechanics, Utah Valley State College.

**BLOMQUIST, Roger C.** (2010); Lecturer, History and Political Science; A.A.S., Drafting and Design Technology; A.A., History, Utah Valley State College; B.A.; M.A., Brigham Young University; Ph.D., University of Nebraska-Lincoln.

**BOAM, Dale H.** (2006); Visiting Assistant Professor, Languages; B.A., Sociology, University of Utah; J.D. (Disability Law & Policies), Northeastern University School of Law.

**BODEN, Jeremy** (2010); Lecturer, 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 Dee** (1999); Associate Professor, Automotive Technology; Certificate, Auto Body Repair, Utah Technical College at Salt Lake.

**BOHL, Dean** (2001); Associate Professor, Automotive Technology; A.A.S., Diesel Equipment Technology, Utah Valley State College.
BOHNS, Michael (2007); Associate Professor, Physical Education & Recreation; B.S., Physical Education; M.S., Exercise Science, Utah State University; Ph.D., Sport & Exercise Science, University of Northern Colorado.

BOND, Calvin A. (2001); Associate Professor, Chemistry; B.S., Chemistry; Ph.D., Environmental and Analytical Chemistry, University of Maryland.

BORCHELT, Mark (2008); Associate Professor, Dance; B.S., Psychology (Magna Cum Laude); M.F.A., Ballet, Utah State University.

BOTT, Shayla (2007); Lecturer, Dance; B.F.A.; M.F.A., Ballet, University of Utah.

BOYER, Bret (2007); Assistant Professor, Physical Education & Recreation; B.S., Sports Medicine; M.A., Health, Brigham Young University; D.P.T., Physical Therapy, Creighton University.

BRACKEN, Mark (1997); Department Chair/Associate Professor, Biology; B.S.; Ph.D., Exercise Physiology, Brigham Young University.

BRADFORD, Joel A. (1993); Associate Professor, Earth Science; B.S., Vocational Education, Southern Illinois University; M.S., Cultural Anthropology, University of Utah.

BRANDT, David W. (1992); Associate Professor, Mathematics; B.S., Electrical Engineering; B.S., Mathematics, University of Missouri; M.S., Mathematics, University of Illinois.

BRANDT, Lorilynn B. (2009); Assistant Professor, Elementary Education; B.S., Elementary Education; M.Ed., Reading and Literacy, Brigham Young University; Ph.D., Curriculum and Instruction, Utah State University.

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